強震記録数値集（4）－1987年12月千葉県東方沖地震－

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DIGITIZED DATA ON NRCDP STRONG-MOTION EARTHQUAKE RECORDS(4)

— December 17, 1987 EAST OFF CHIBA PREFECTURE EARTHQUAKE —

By

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National Research Center for Disaster Prevention

1.Introduction

The "Digitized Data on Strong-motion Earthquake Records" in series was first published by NRCDP in 1979, in order to provide the real strong-motion data for both experimental and analytical works for earthquake engineering. This is the fourth report of the series corresponding to the "Prompt Report on Strong-motion Accelerograms No.37". The data in the present report are from the 1987 East Off Chiba Prefecture Earthquake.

The number of records contained in the present report amounts to seven : six of them obtained at NRCDP stations and one by SMAC B_2 installed at the station of Nihon Gosei Gomu. The NRCDP records are the results of array observation deployed in the Boso district. The array data will provide an important information to analytical works on seismic waves in the wavenumber domain. Furthermore, we tried to offer the data from the Boso array by means of a floppy disk in order to avoid the troublesome works related to reading the printed data.

2.Data

2.1 Earthquake data

The earthquake data published by the JMA (Japan Meteorological Agency) are as follows :

Data and time : 11h08m, December 17, 1987
Epicentral region : Kujukuri coast of Boso Pen.
Latitude : 35°22'N
Longitude : 140°30'E
Magnitude (M_{JMA}) : 6.7

2.2 Station and seismograph

The locations of observation site are shown in Fig.1 and listed in Table 1. The seismographs installed at NRCDP stations are the same accelerograph. The frequency characteristics of this accelerograph (SAMTAC-17) are shown in Fig.2. The seismograph installed at the site in the Nihon Gosei Gomu is the SMAC-B_2. The instrumental characteristics of SMAC-B_2 is listed in Table 1 in the "Strong-motion Earthquake Records in Japan, 1987" published by the Strong-motion Earthquake Observation Council.

2.3 Data

For each record, three plots are presented in the following order.

Phase 1 data : baseline-corrected accelerations. The three channels of the acceleration are plotted with each channel individually scaled (Fig.3). The original time is indicated on the plots. The accuracy of time is within 0.01s. The SMAC-B_2 has no time

code.

Phase 2 data : baseline-corrected accelertion, velocity and displacement with each channel individually scaled (Fig.4).

Phase 3 data : response spectra. The relative velocity response spectra, the absolute acceleration response spectra and the relative displacement response spectra are presented on a logarithmic plot for each channel. The spectra are plotted for 0%, 2%, 5%, and 10% dampings in the period range from 0.05 to 10 seconds (Fig.5). These response spectra are also listed in Table 2.

In addition to these data, uncorrected digitized data of SMAC-B_2 record at the Nihon Gsei Gomu are listed in Table 3. Five micro floppy disks are attached to this report (see Table 4). The digitized acceleration data from six NRCDP stations are written on these disks with MS-DOS format. The sampling interval is 0.005 s and the scaling unit of acceleration is 0.01 gal.

Acknowledgments

We wish to express our thanks to the members of the Nihon Gosei Gomu, who kindly permit us to digitize and to publish the record of SMAC-B_2 at their station.

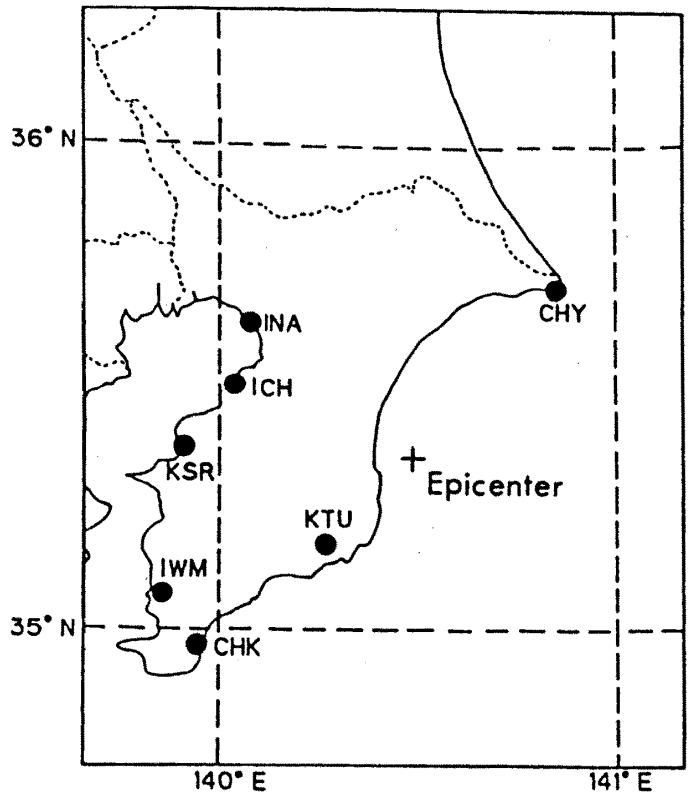


Fig. 1 Locations of observation site and epicenter of the 1987 East Off Chiba Prefecture.

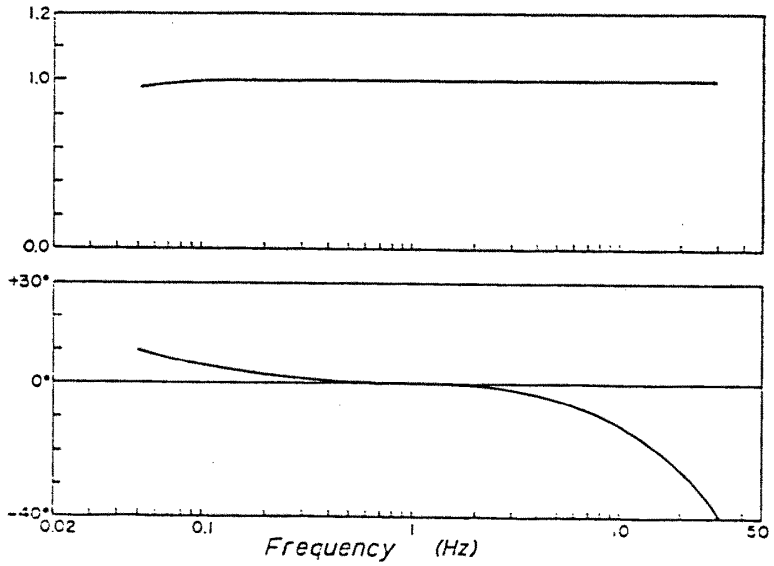


Fig. 2 Over-all frequency characteristics of SAMTAC-17.

Table 1. Locations of strong-motion observation site.

Site No.	NRCDP station name	Latitude	Longitude	Seismographs
KT519	INA (Inage)	35° 37' 49" N	140° 04' 52" E	SAMTAC17
KT520	CHY (Chiyoshi)	35° 42' 08" N	140° 51' 18" E	SAMTAC17
KT521	KSR (Kisarazu)	35° 22' 25" N	139° 55' 06" E	SAMTAC17
KT522	IWM (Iwaiminami)	35° 04' 49" N	139° 51' 53" E	SAMTAC17
KT523	CHK (Chikura)	34° 58' 19" N	139° 56' 48" E	SAMTAC17
KT552	KTU (Katuura)	35° 10' 37" N	140° 16' 08" E	SAMTAC17
KT064	ICH (Nihongosei-Gomu)	35° 30' 07" N	140° 03' 06" E	SMAC-B2

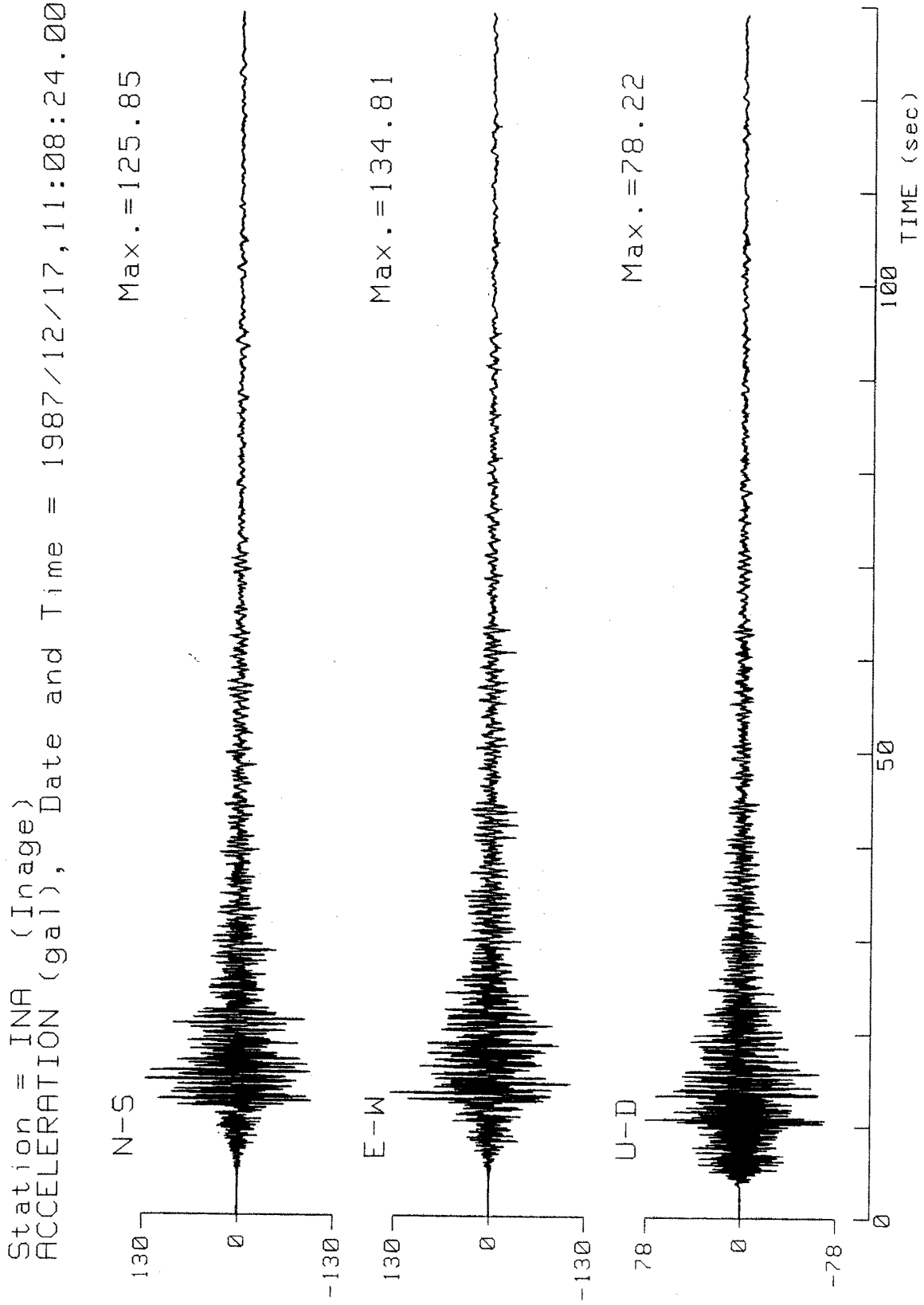
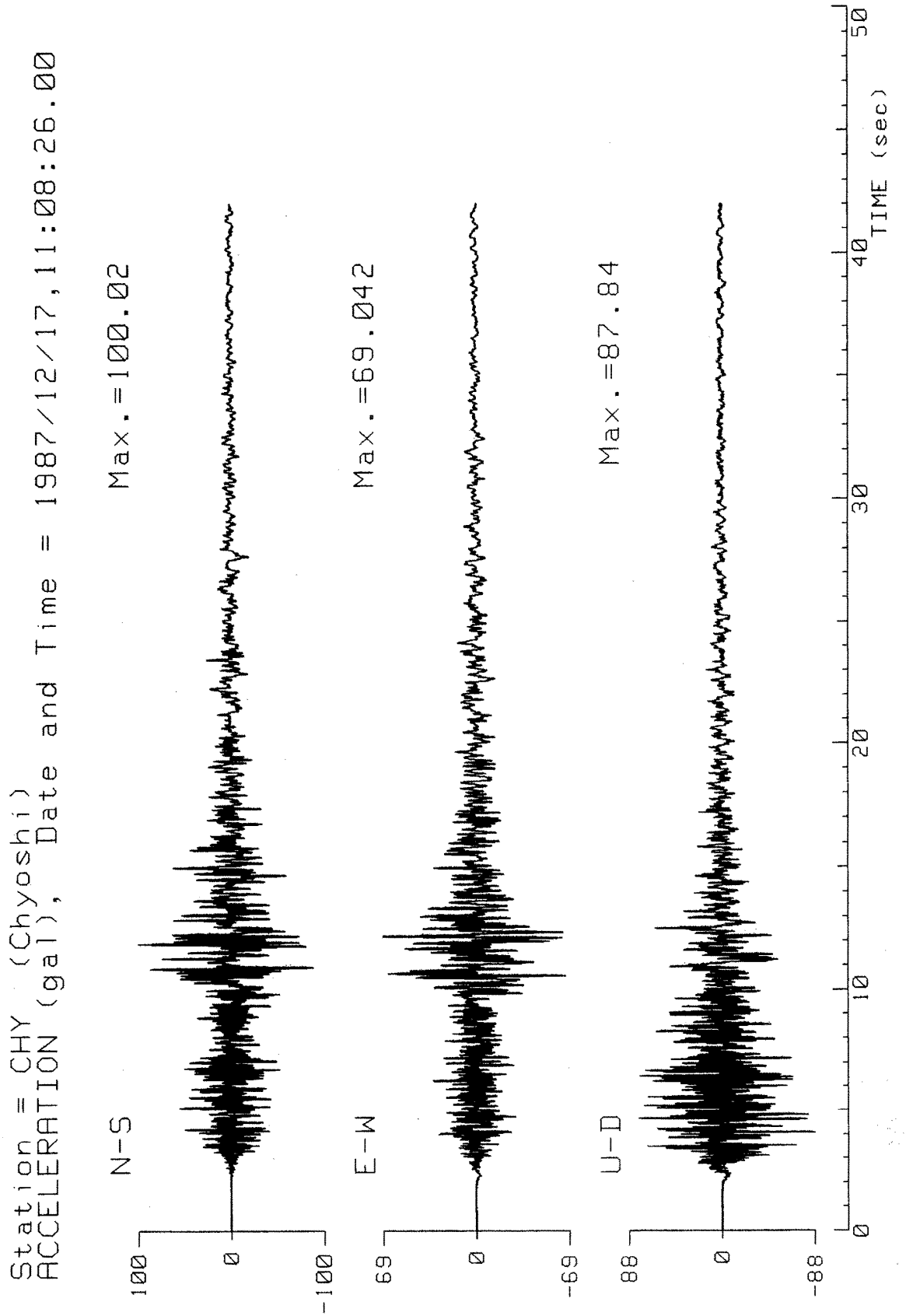
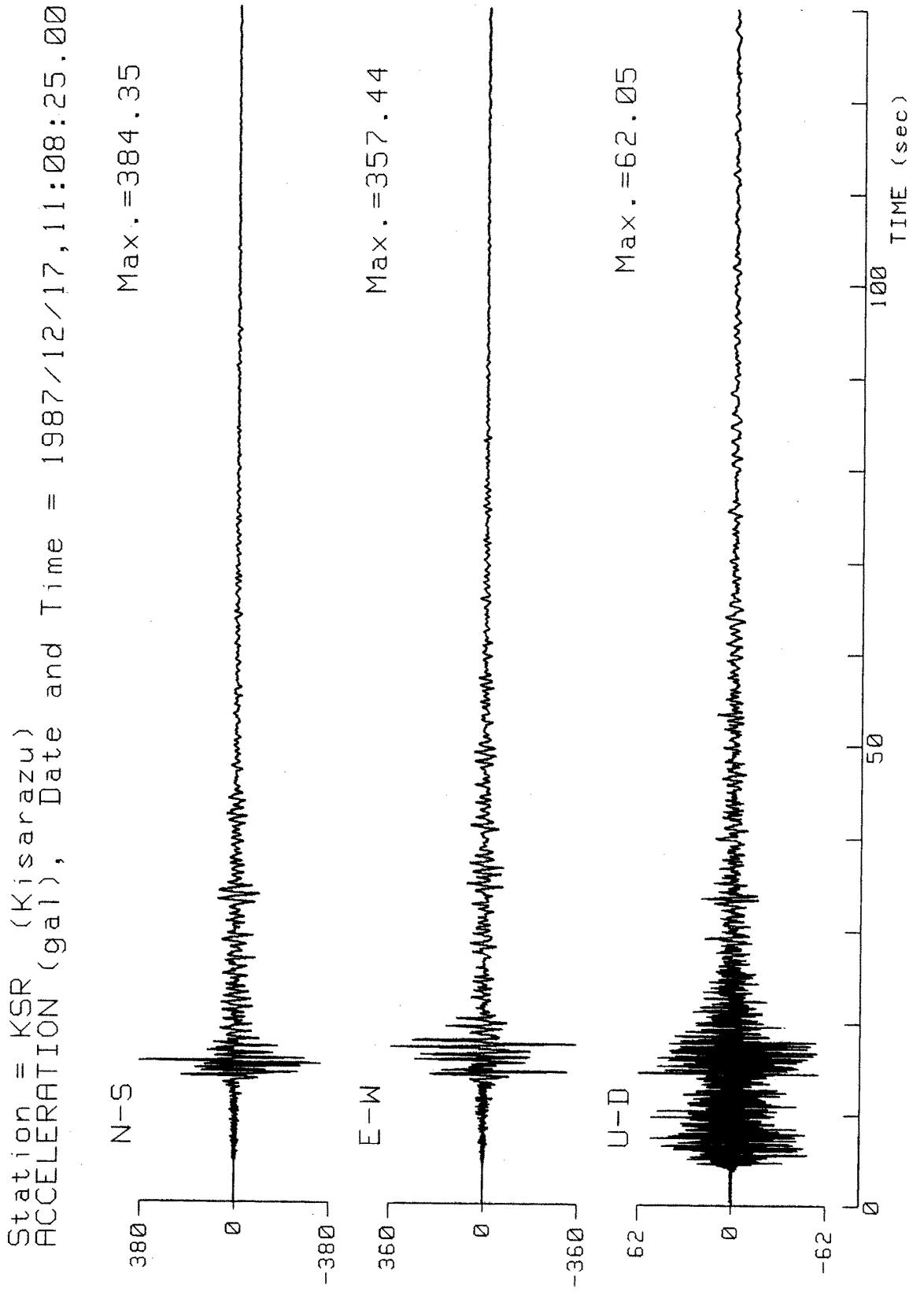


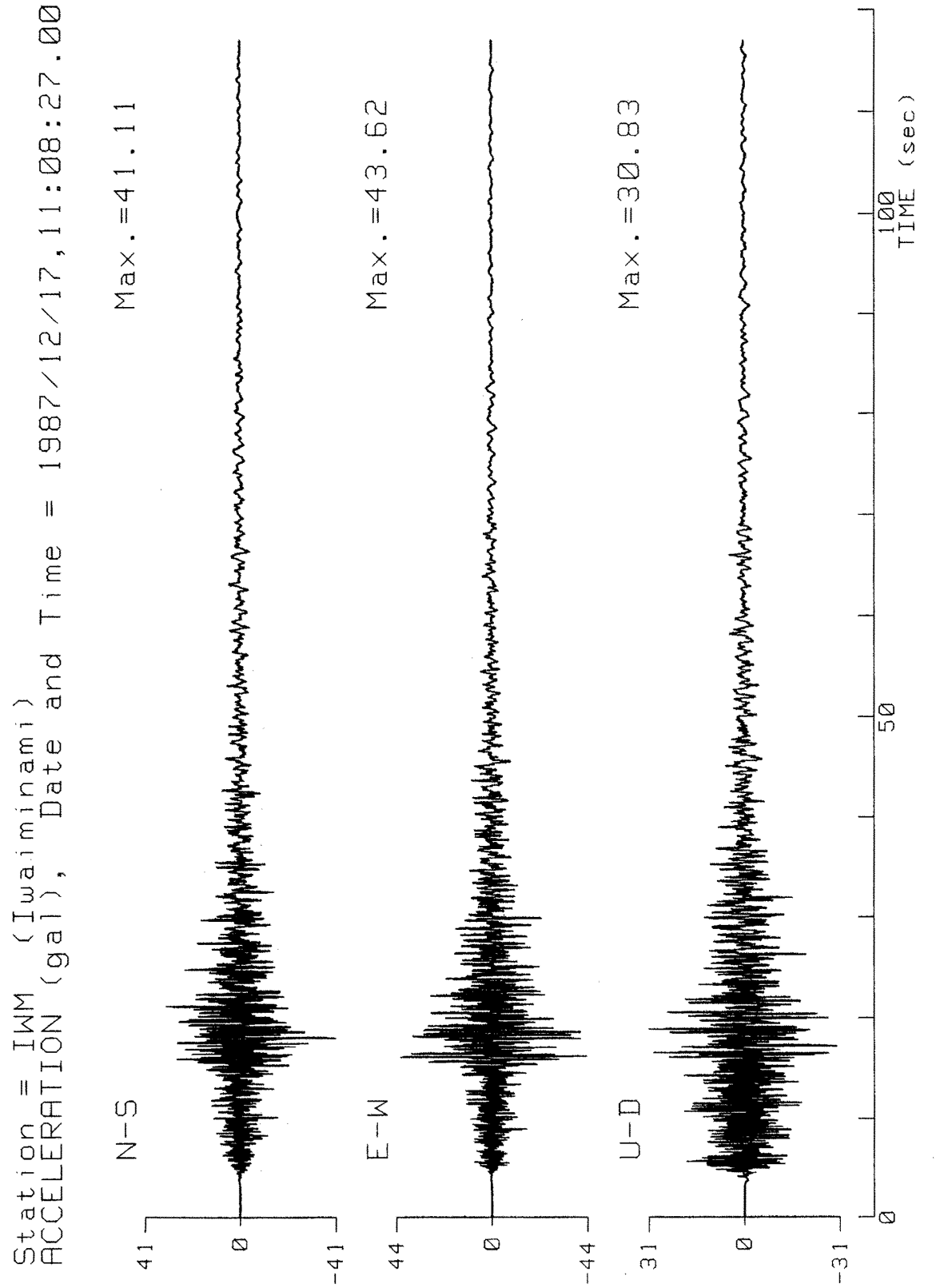
Fig. 3 Baseline-corrected accelerograms.
(3-1) INA


Station = CHY (Chyoshi)
ACCELERATION (gal), Date and Time = 1987/12/17,11:08:26.00
N-S
Max.=100.02
100
0
-100
E-W
Max.=69.042
69
0
-69
U-D
Max.=87.84
88
0
-88
0
10
20
30
40
50
TIME (sec)

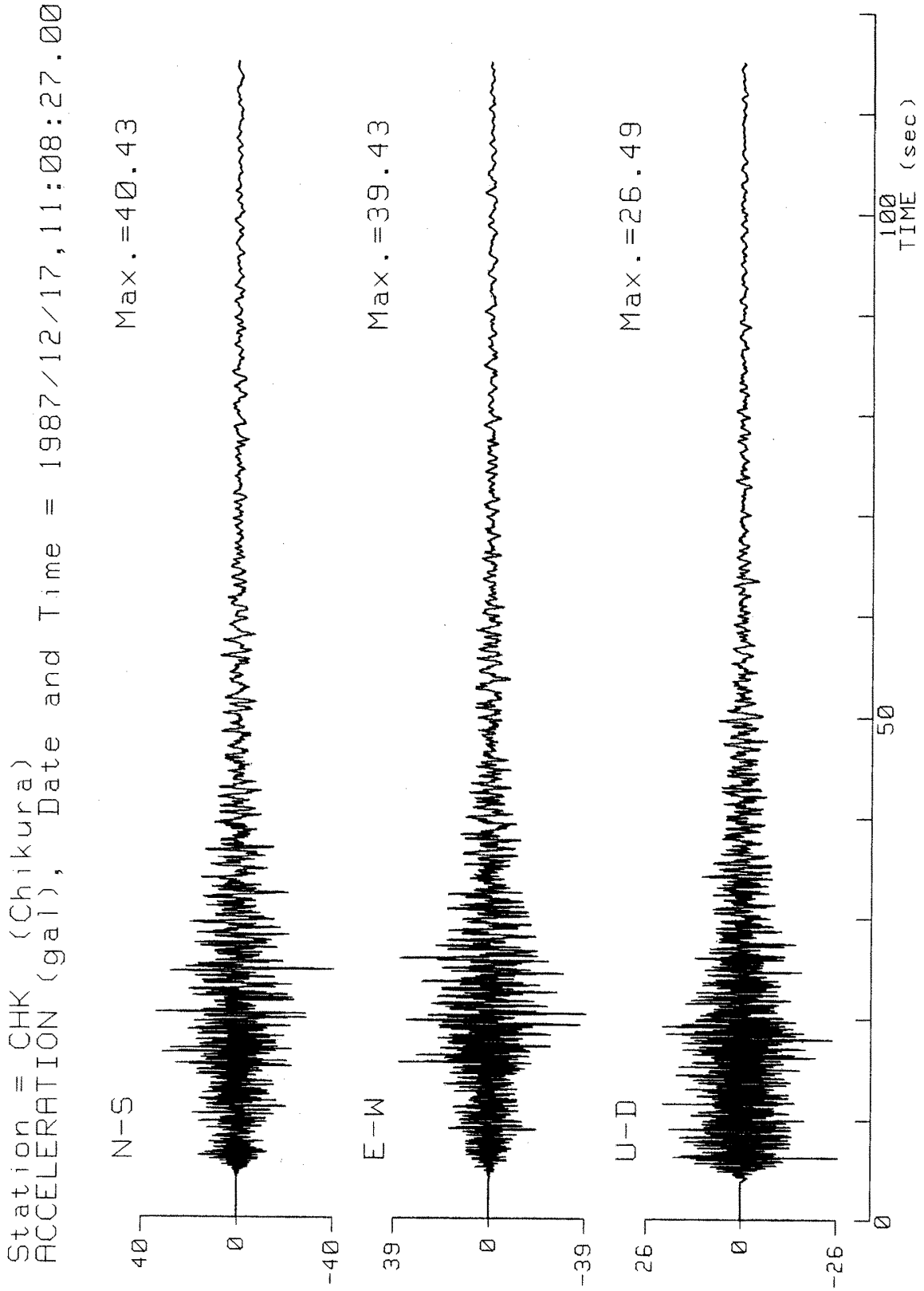
(3-2) CHY


Station = KSR (Kisarazu)
ACCELERATION (gal), Date and Time = 1987/12/17,11:08:25.00
N-S
Max.=384.35
380
0
-380
E-W
Max.=357.44
360
0
-360
U-D
Max.=62.05
62
0
-62
0
50
100
TIME (sec)

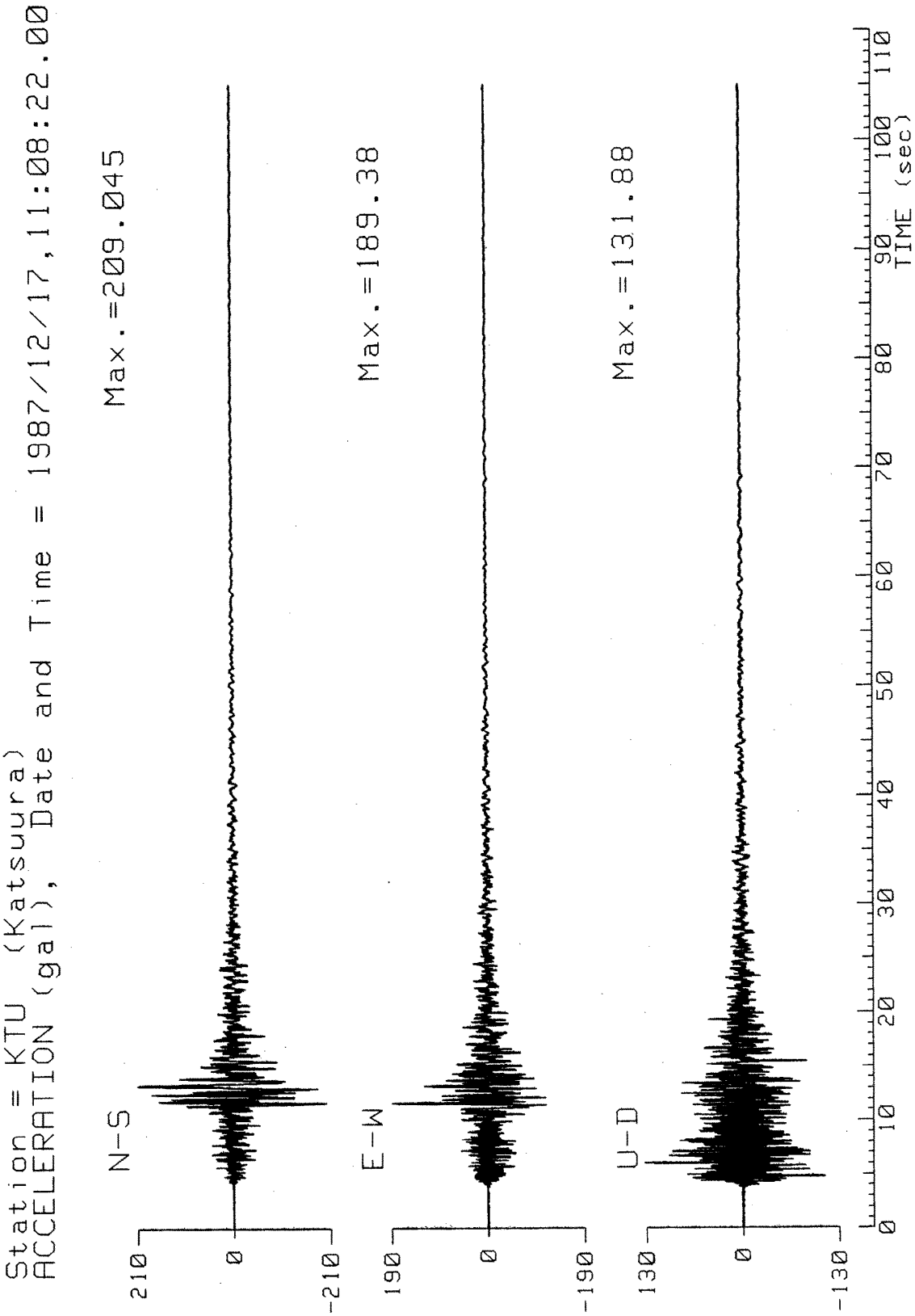
(3-3) KSR


Station = IWM (Iwaiminami)
ACCELERATION (gal), Date and Time = 1987/12/17,11:08:27.00
N-S
Max.=41.11
41
0
-41
E-W
Max.=43.62
44
0
-44
U-D
Max.=30.83
31
0
-31
0
50
100
TIME (sec)

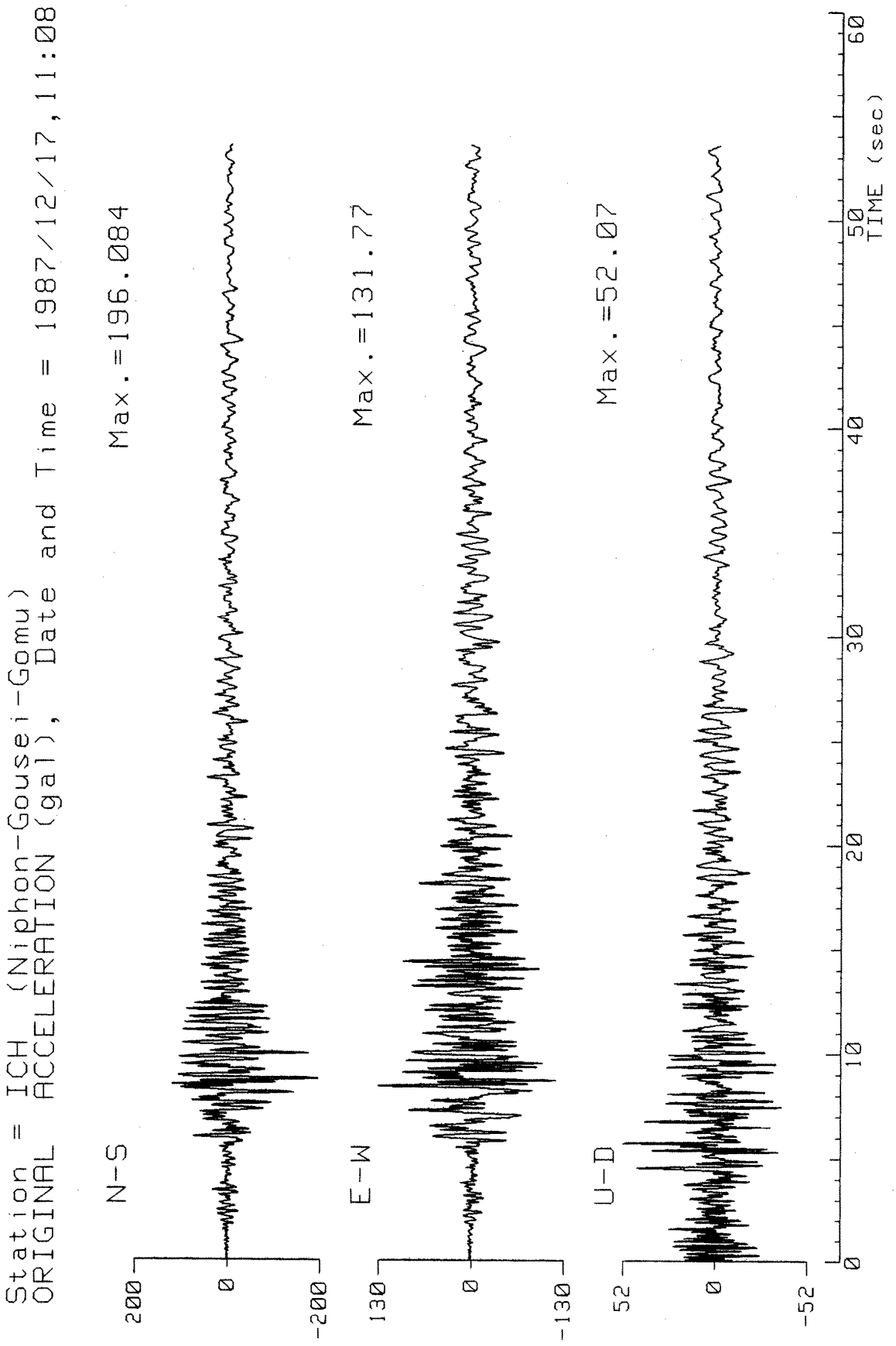
(3-4) IWM


Station = CHK (Chikura)
ACCELERATION (gal), Date and Time = 1987/12/17,11:08:27.00
N-S
Max.=40.43
40
0
-40
E-W
Max.=39.43
39
0
-39
U-D
Max.=26.49
26
0
-26
0
50
100
TIME (sec)

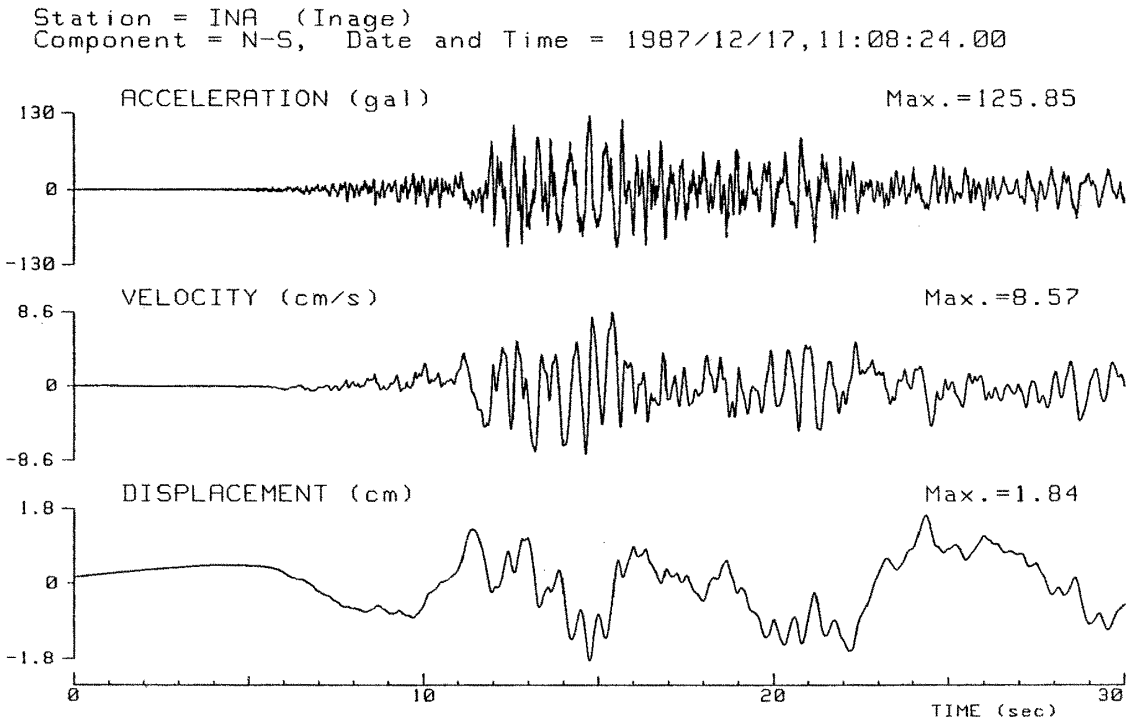
(3-5) CHK


Station = KTU (Katsuura)
ACCELERATION (gal), Date and Time = 1987/12/17,11:08:22.00
Max.=209.045
Max.=189.38
Max.=131.88
N-S
E-W
U-D
210
0
-210
190
0
-190
130
0
-130
0
10
20
30
40
50
60
70
80
90
100
110
TIME (sec)

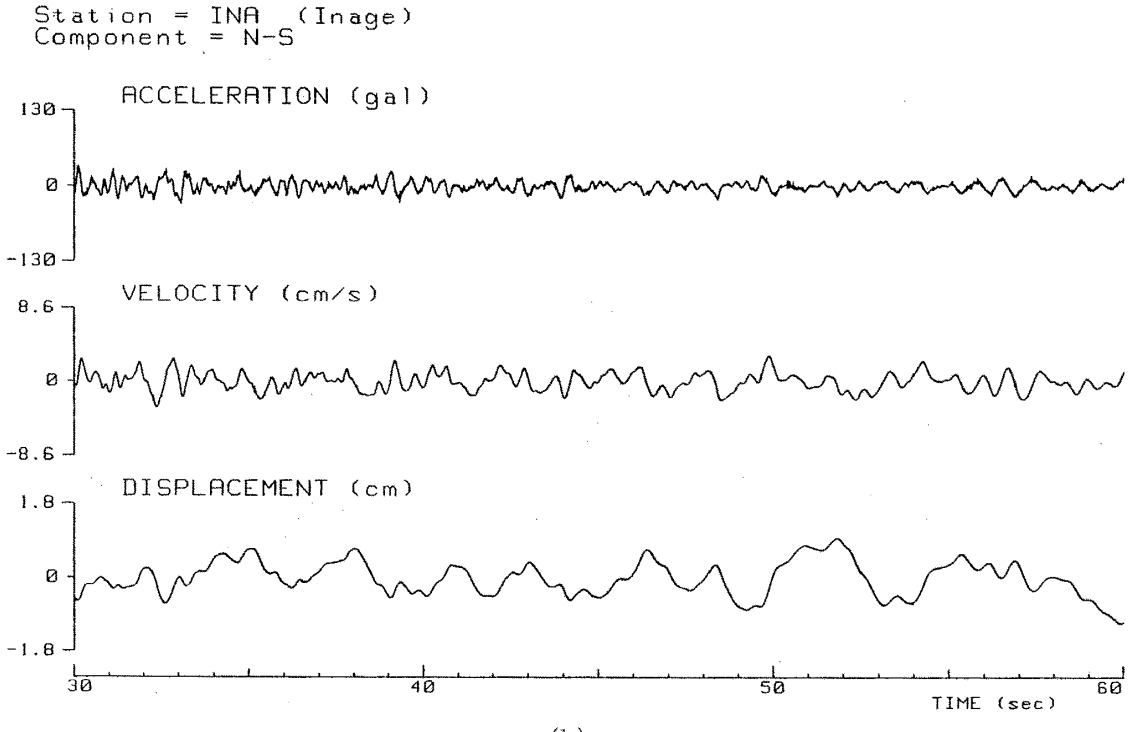
(3-6) KTU


Station = ICH (Niphon-Gousei-Gomu)
ORIGINAL ACCELERATION (gal), Date and Time = 1987/12/17,11:08
N-S
Max.=196.084
200
0
-200
E-W
Max.=131.77
130
0
-130
U-D
Max.=52.07
52
0
-52
0
10
20
30
40
50
60
TIME (sec)

(3-7) ICH

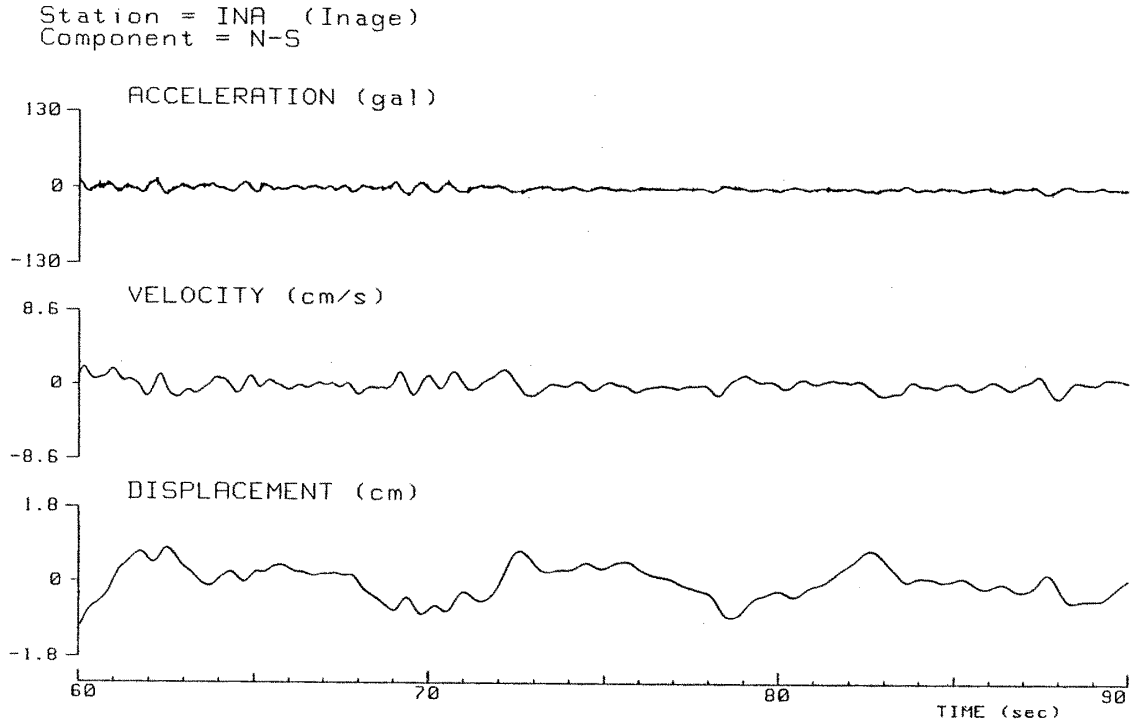


(a)

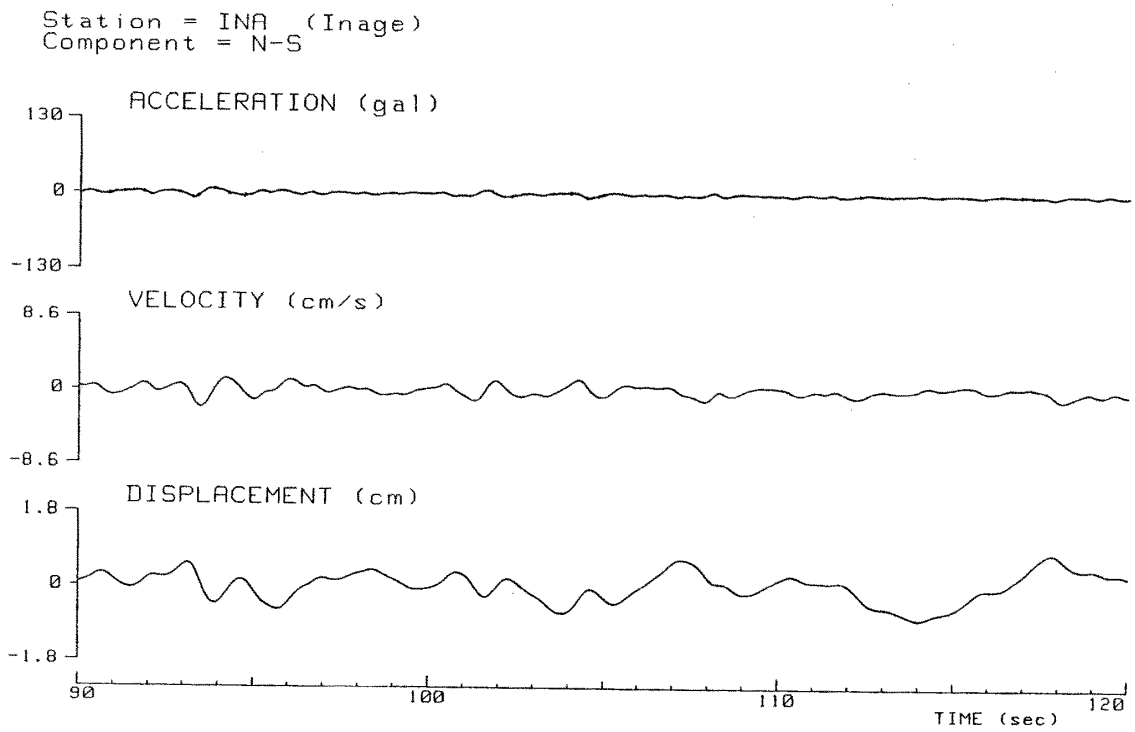


(b)

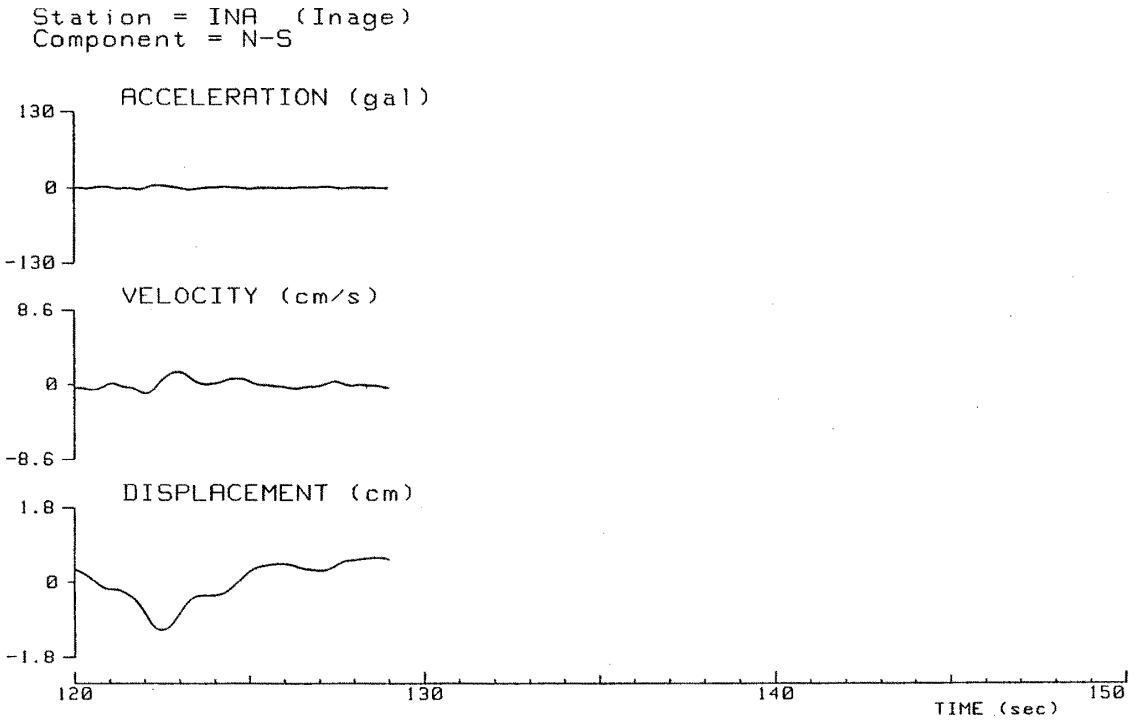
Fig. 4 Baseline-corrected acceleration, velocity and displacement.
(4−1) INA, NS-component


Station = INA (Inage)
Component = N-S
ACCELERATION (gal)
130
0
-130
VELOCITY (cm/s)
8.6
0
-8.6
DISPLACEMENT (cm)
1.8
0
-1.8
60
70
80
90
TIME (sec)

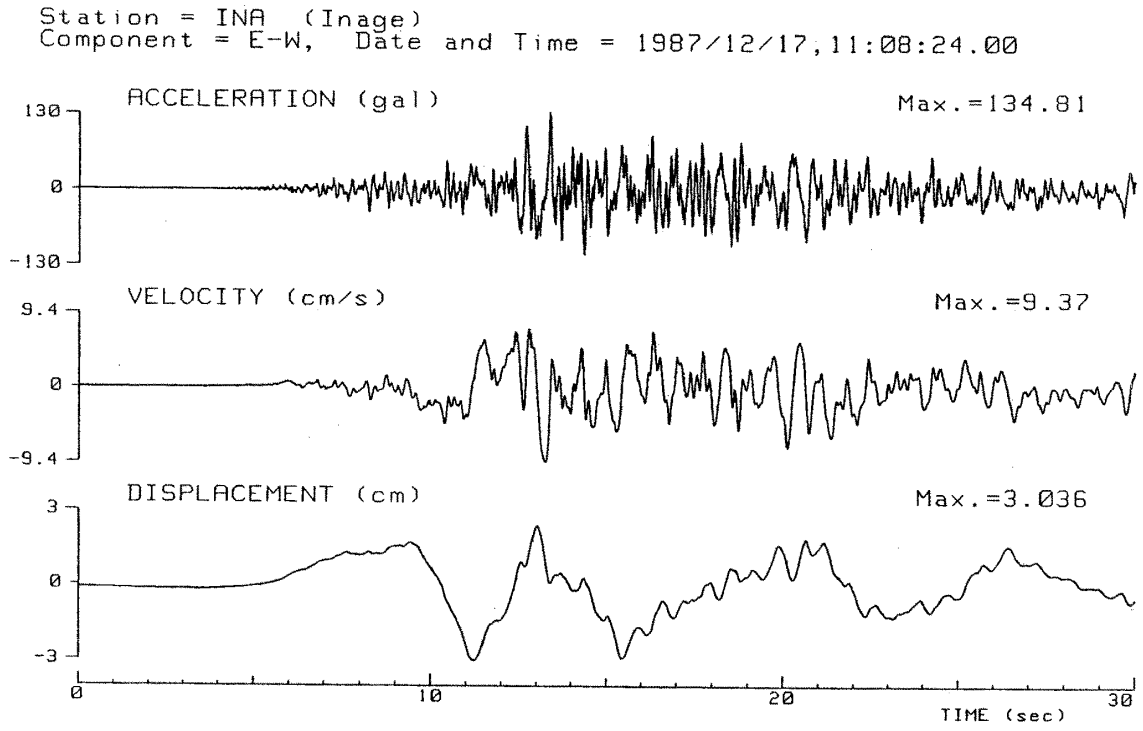
(c)


Station = INA (Inage)
Component = N-S
ACCELERATION (gal)
130
0
-130
VELOCITY (cm/s)
8.6
0
-8.6
DISPLACEMENT (cm)
1.8
0
-1.8
90
100
110
120
TIME (sec)

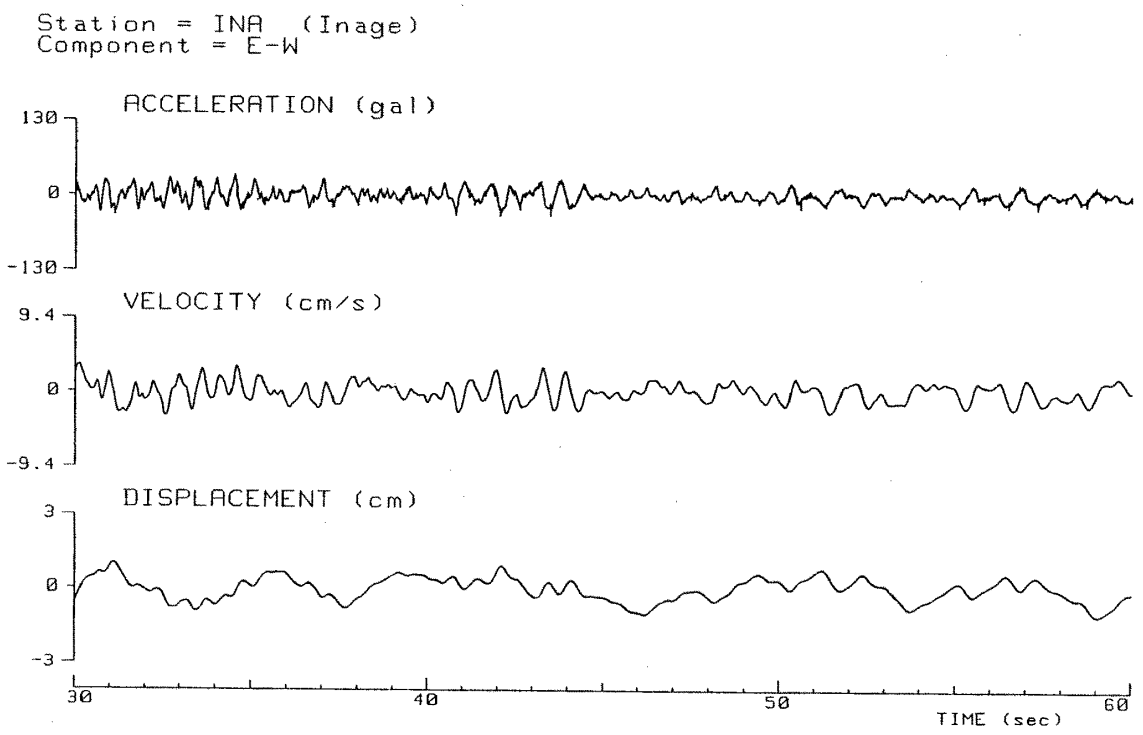
(d)


Station = INA (Inage)
Component = N-S
ACCELERATION (gal)
130
0
-130
VELOCITY (cm/s)
8.6
0
-8.6
DISPLACEMENT (cm)
1.8
0
-1.8
120
130
140
150
TIME (sec)

(e)

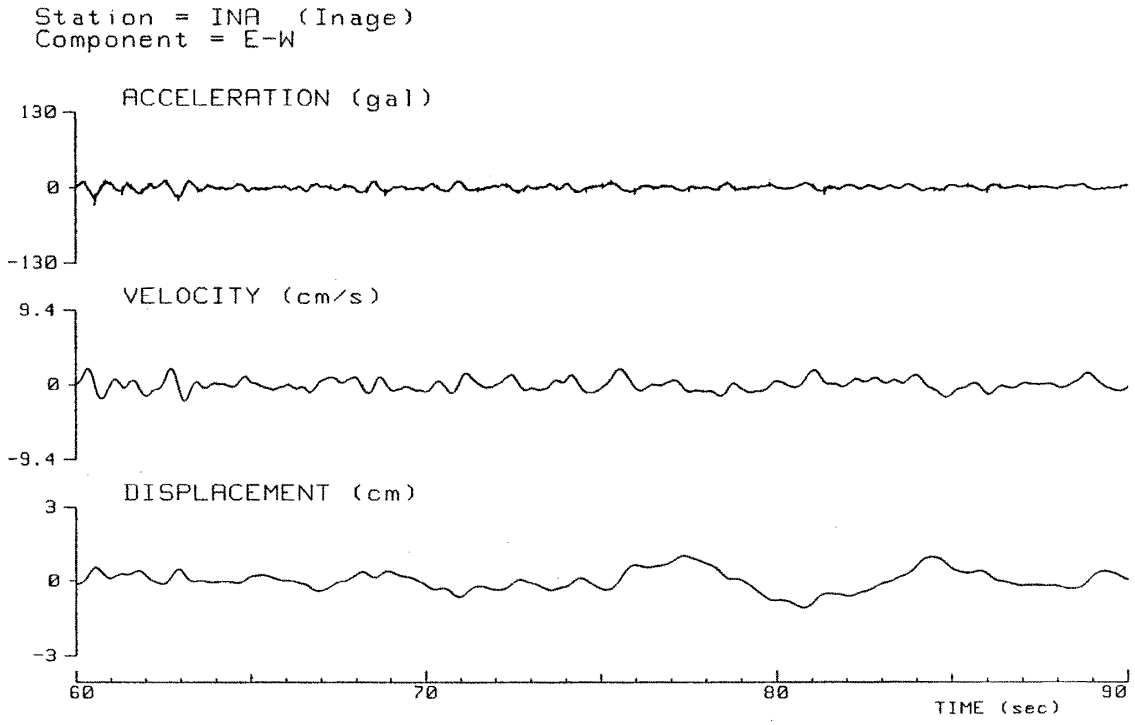


(a)

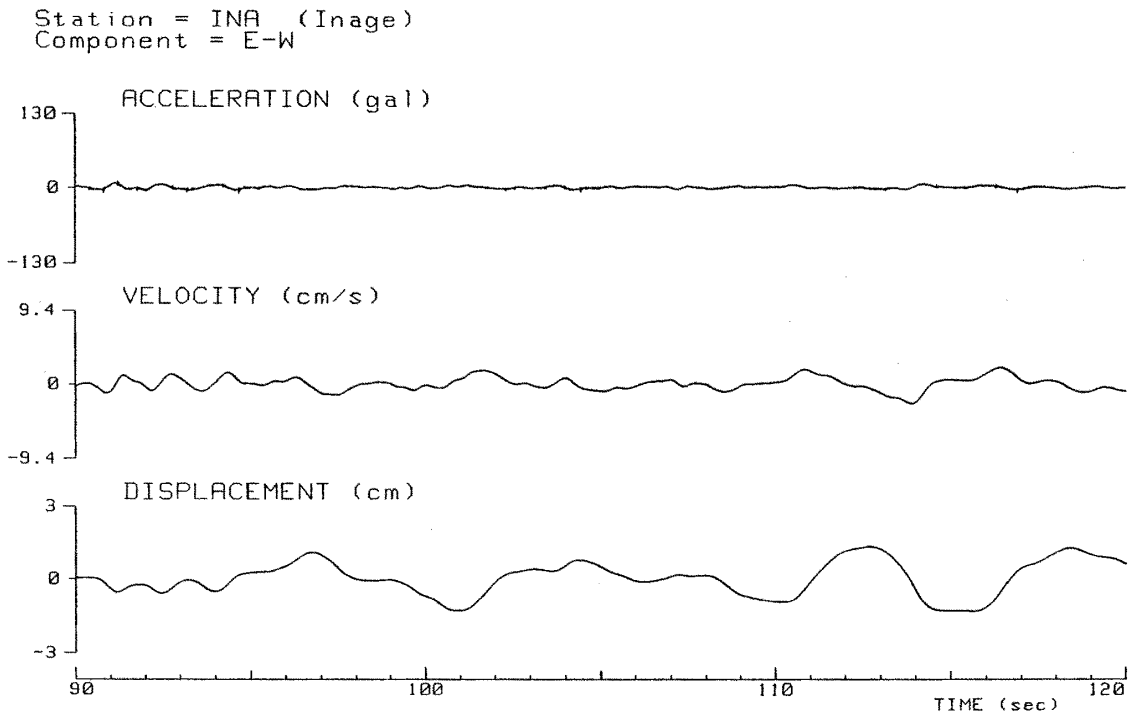


(b)

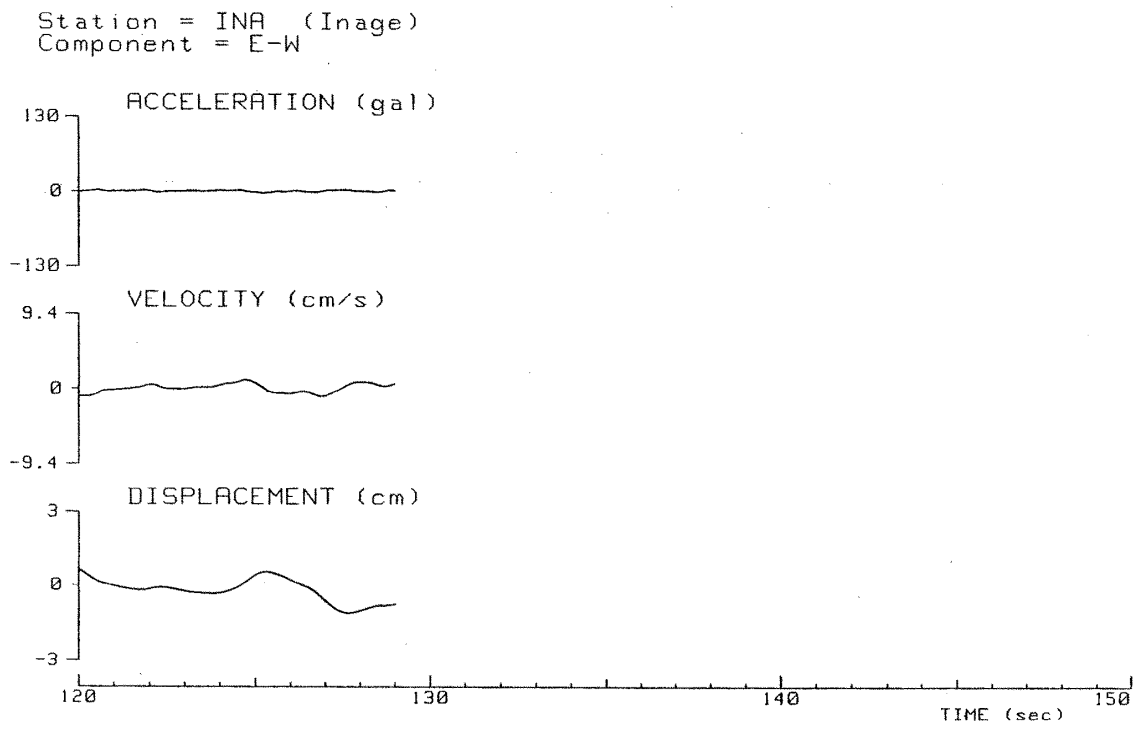
(4−2) INA, EW-component


Station = INA (Inage)
Component = E-W
ACCELERATION (gal)
130
0
-130
VELOCITY (cm/s)
9.4
0
-9.4
DISPLACEMENT (cm)
3
0
-3
60
70
80
90
TIME (sec)

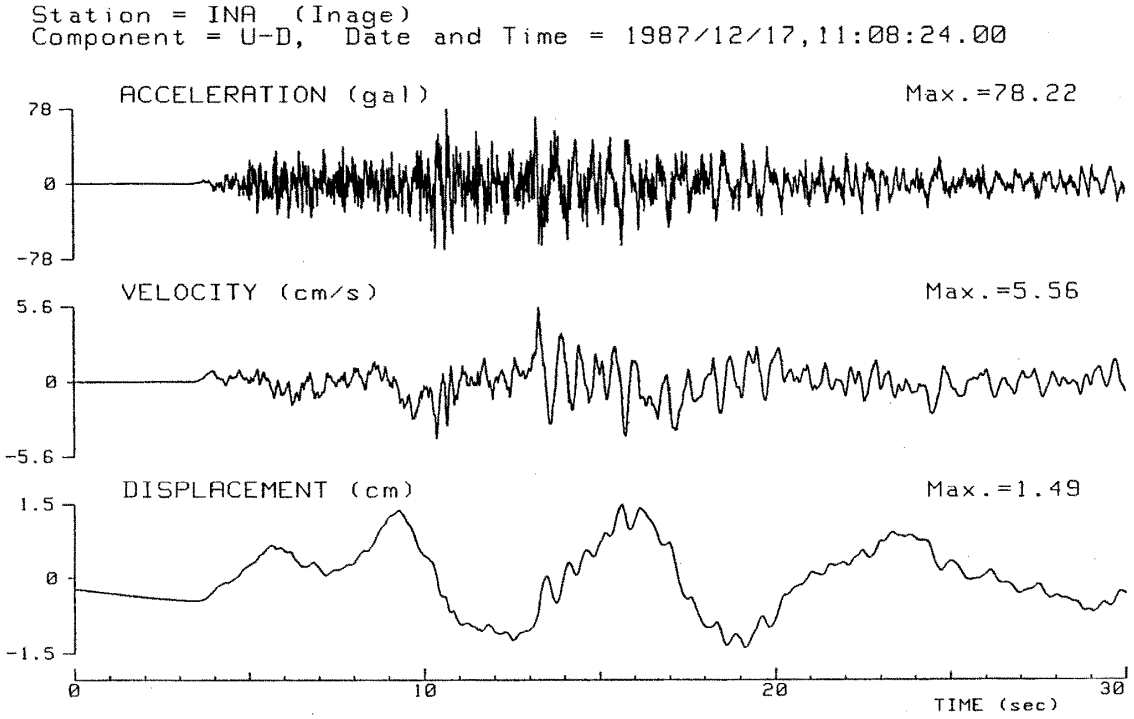
(c)


Station = INA (Inage)
Component = E-W
ACCELERATION (gal)
130
0
-130
VELOCITY (cm/s)
9.4
0
-9.4
DISPLACEMENT (cm)
3
0
-3
90
100
110
120
TIME (sec)

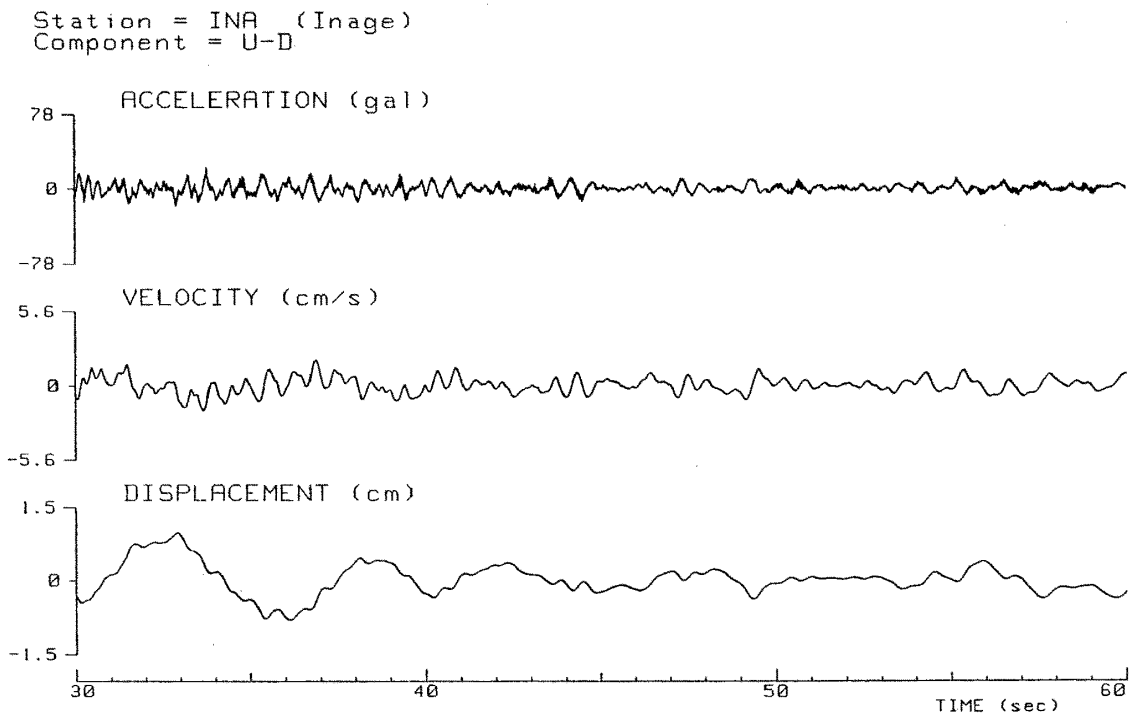
(d)


Station = INA (Inage)
Component = E-W
ACCELERATION (gal)
130
0
-130
VELOCITY (cm/s)
9.4
0
-9.4
DISPLACEMENT (cm)
3
0
-3
120
130
140
150
TIME (sec)

(e)

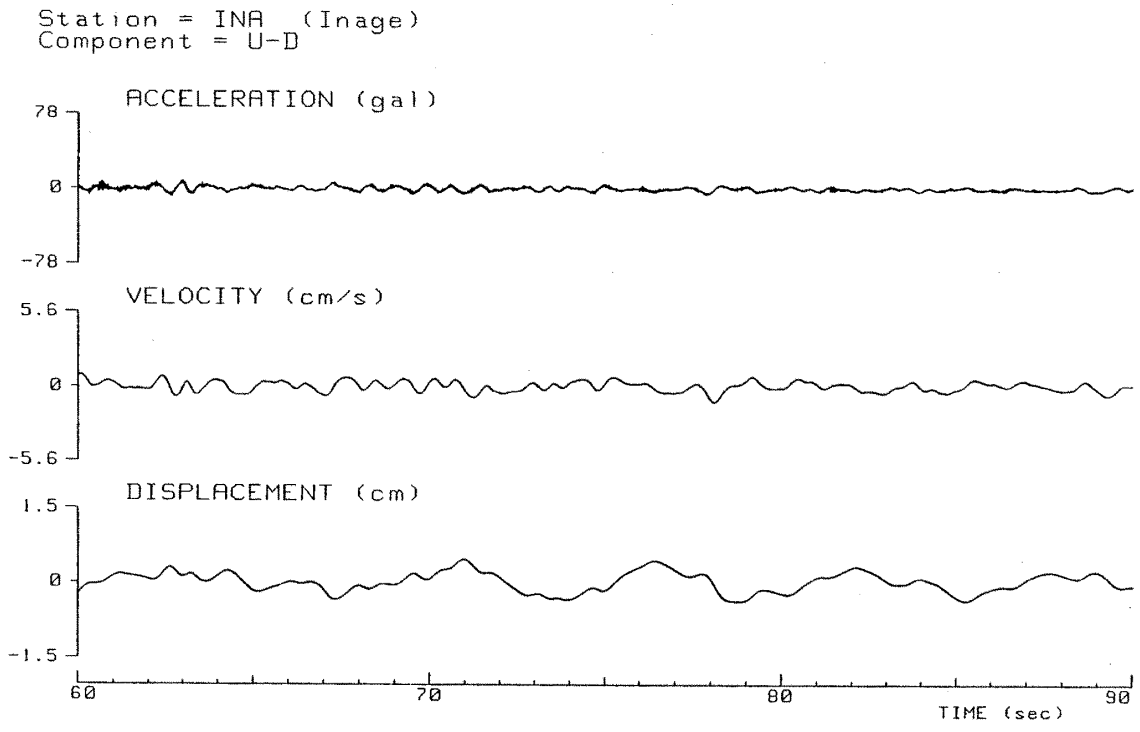


(a)



(b)

(4−3) INA, DU-component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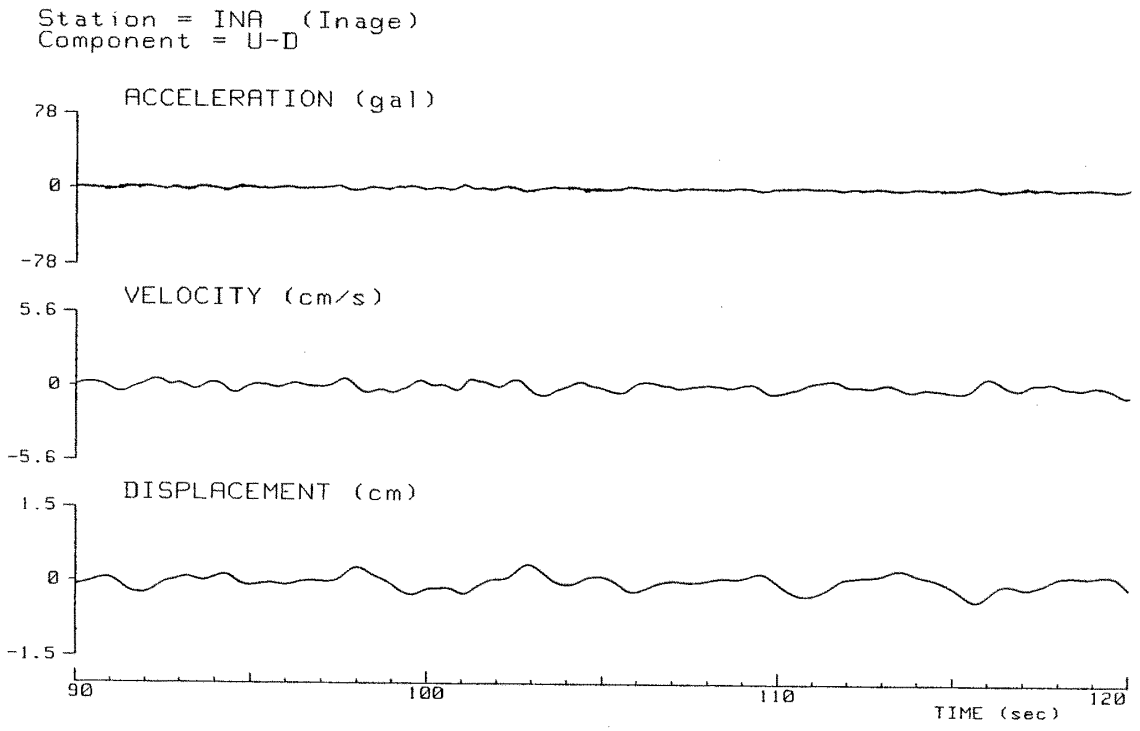
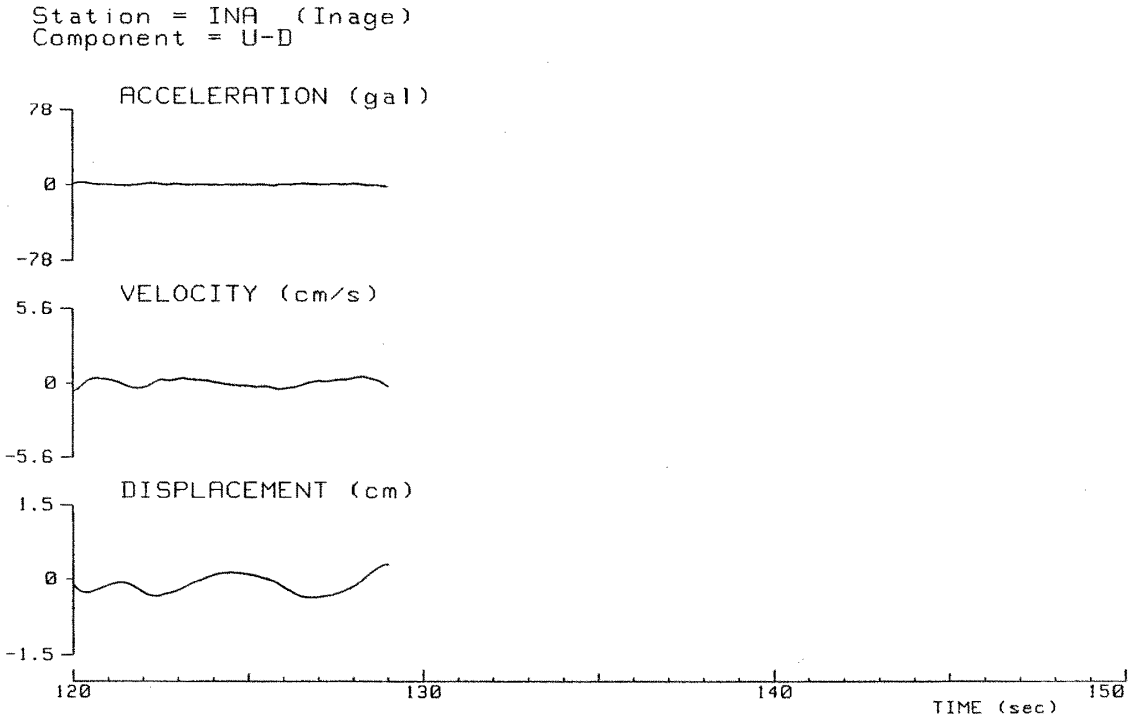
Component = U-D
ACCELERATION (gal)
78
0
-78
VELOCITY (cm/s)
5.6
0
-5.6
DISPLACEMENT (cm)
1.5
0
-1.5
60
70
80
90
TIME (sec)

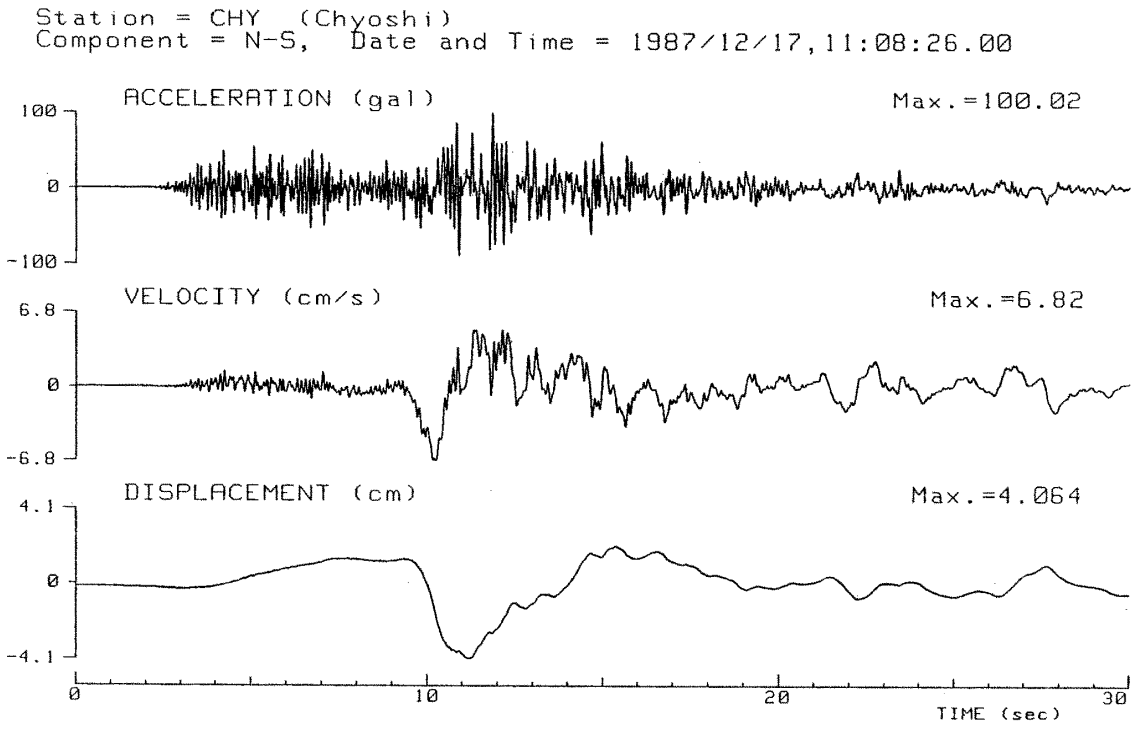
(c)


Station = INA (Inage)
Component = U-D
ACCELERATION (gal)
78
0
-78
VELOCITY (cm/s)
5.6
0
-5.6
DISPLACEMENT (cm)
1.5
0
-1.5
90
100
110
120
TIME (sec)

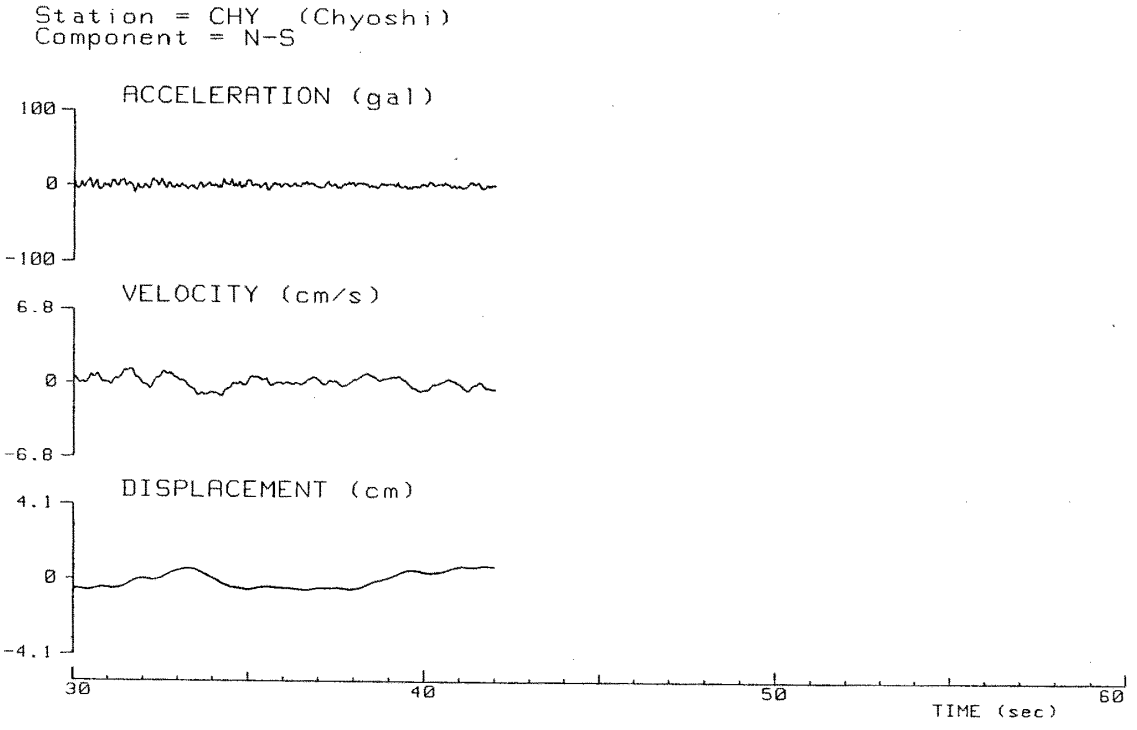
(d)


Station = INA (Inage)
Component = U-D
ACCELERATION (gal)
78
0
-78
VELOCITY (cm/s)
5.6
0
-5.6
DISPLACEMENT (cm)
1.5
0
-1.5
120
130
140
150
TIME (sec)

(e)

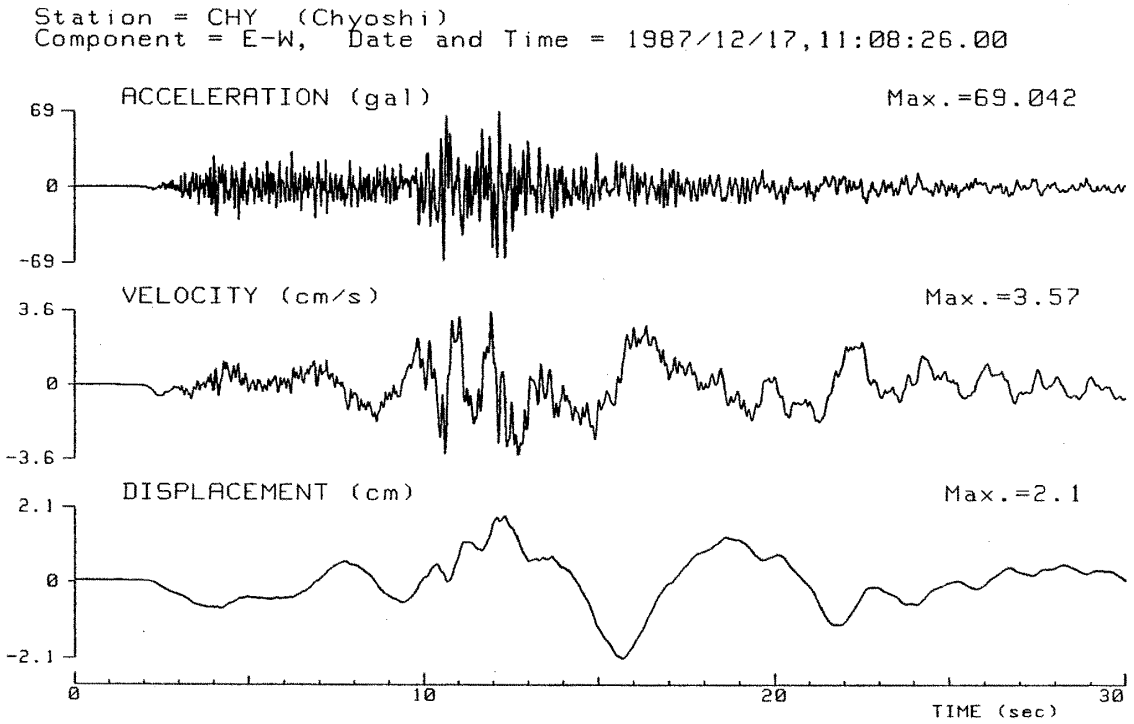


(a)

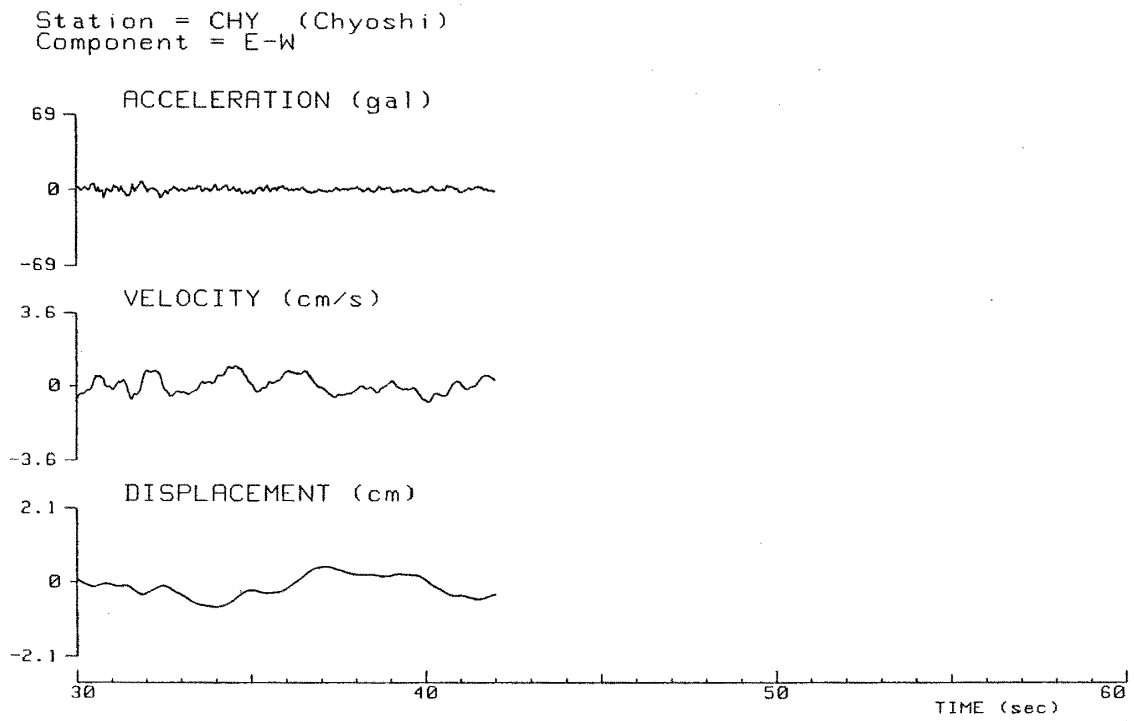


(b)

(4−4) CHY, NS-component

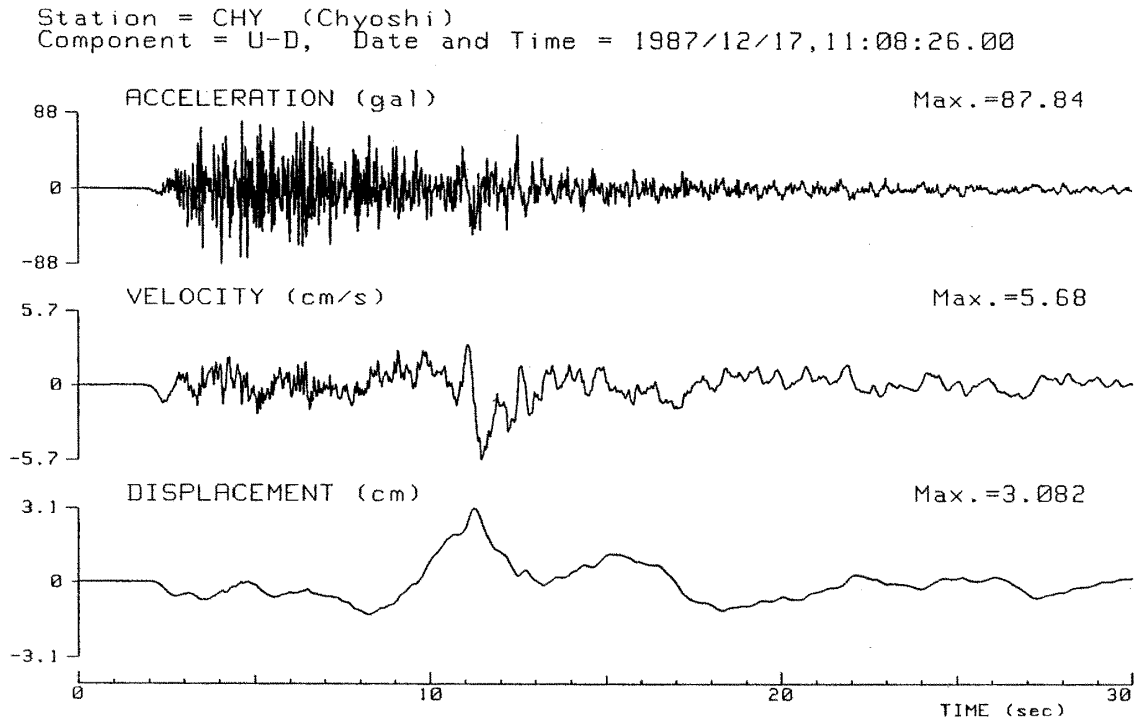


(a)

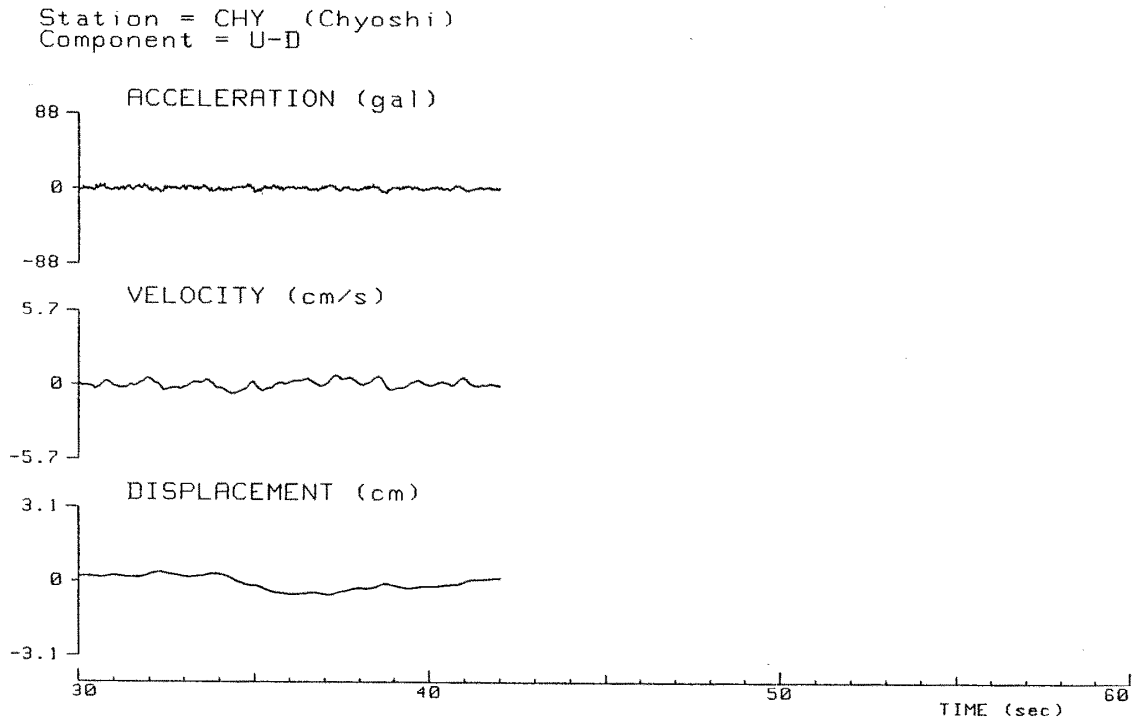


(b)

(4−5) CHY, EW-component

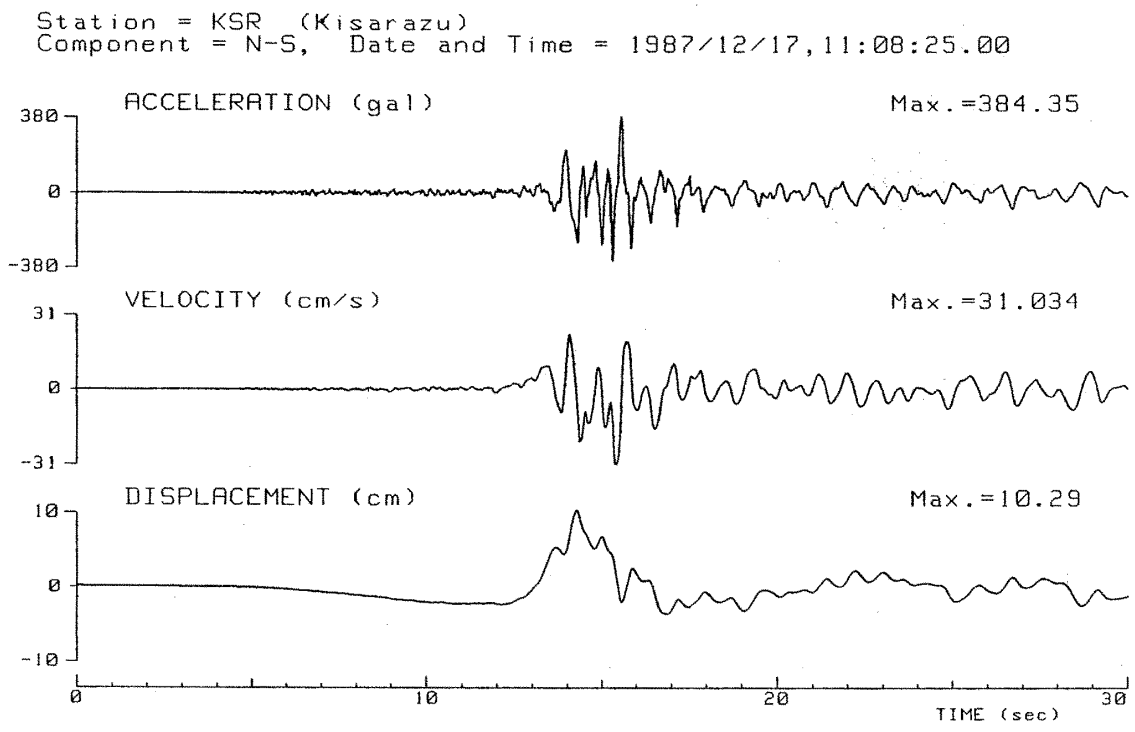


(a)

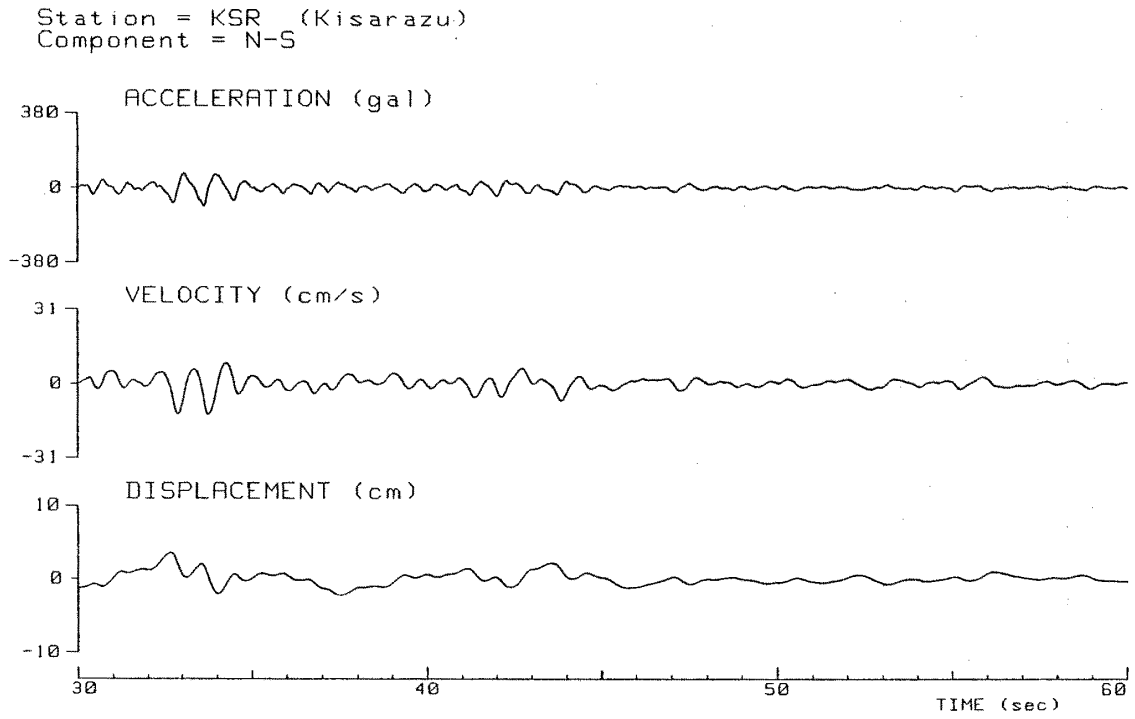


(b)

(4−6) CHY, DU-component

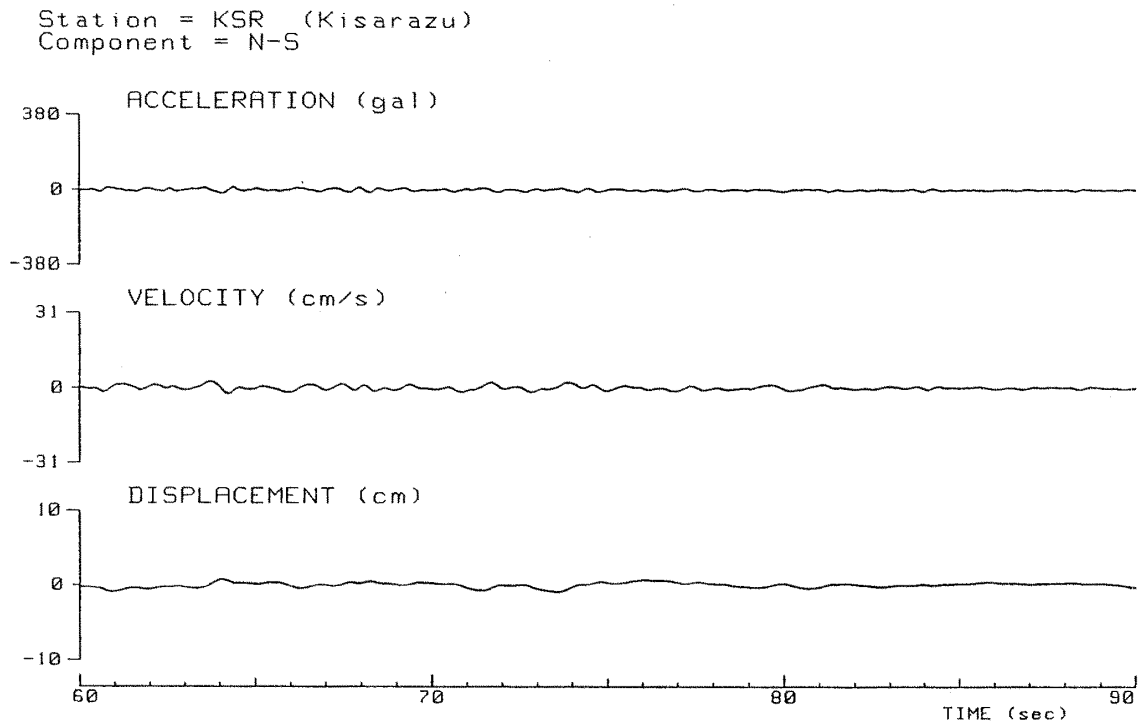


(a)

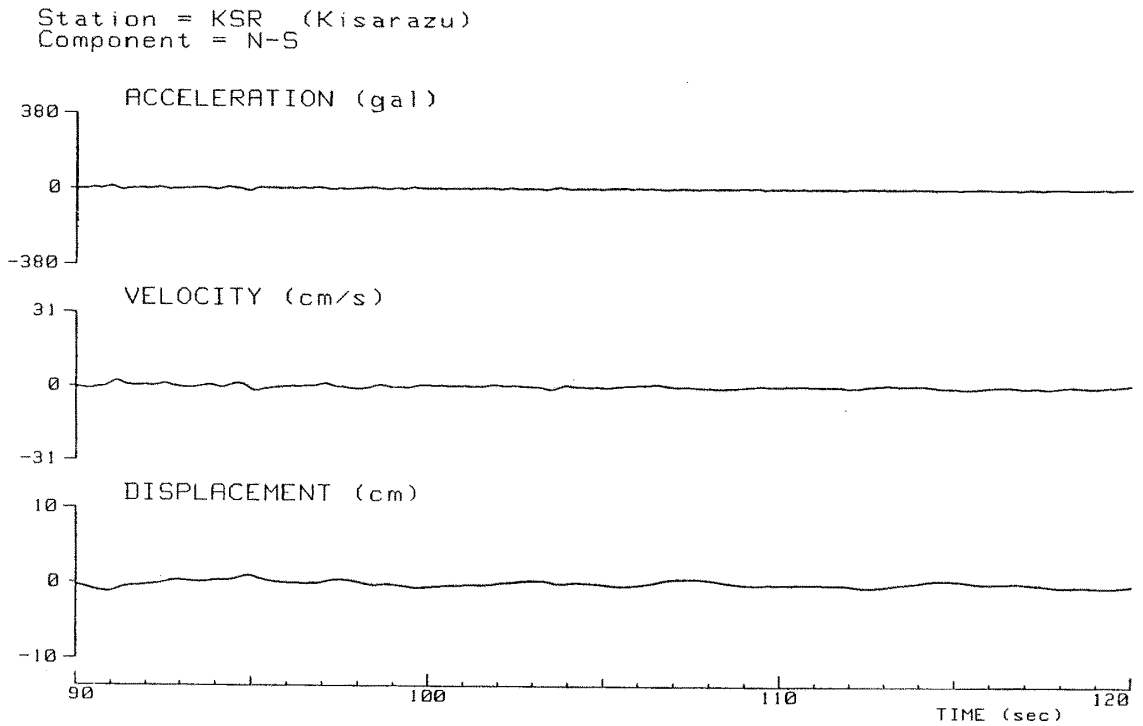


(b)

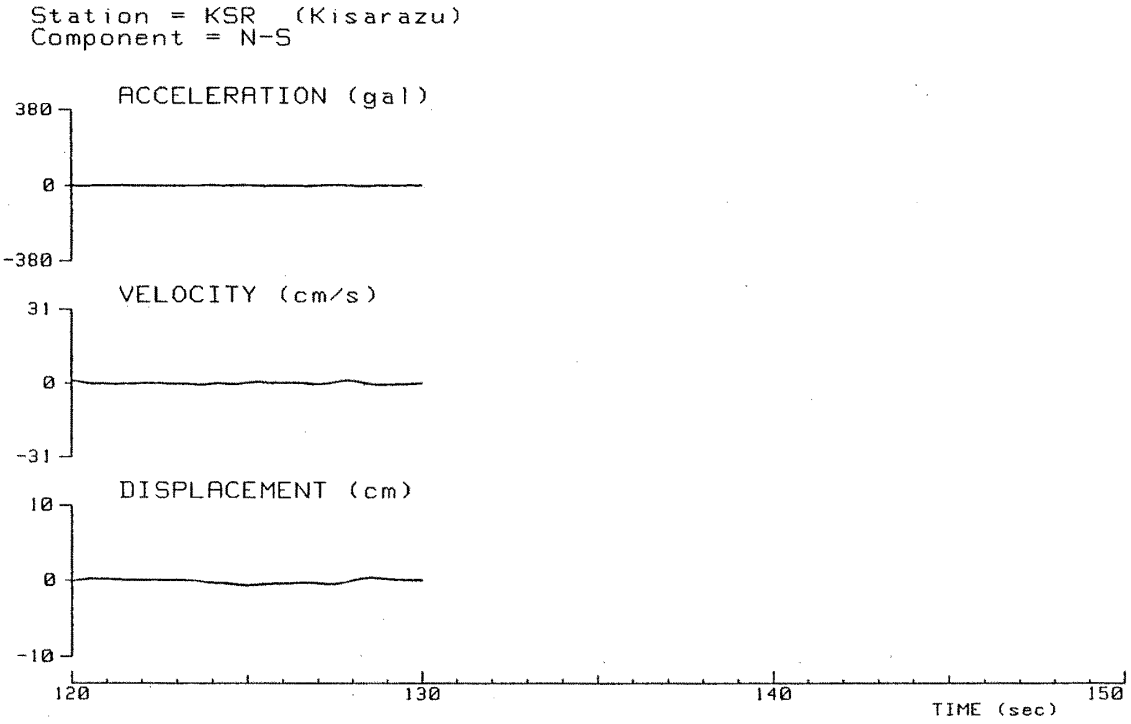
(4−7) KSR, NS-component


Station = KSR (Kisarazu)
Component = N-S
ACCELERATION (gal)
380
0
-380
VELOCITY (cm/s)
31
0
-31
DISPLACEMENT (cm)
10
0
-10
60
70
80
90
TIME (sec)

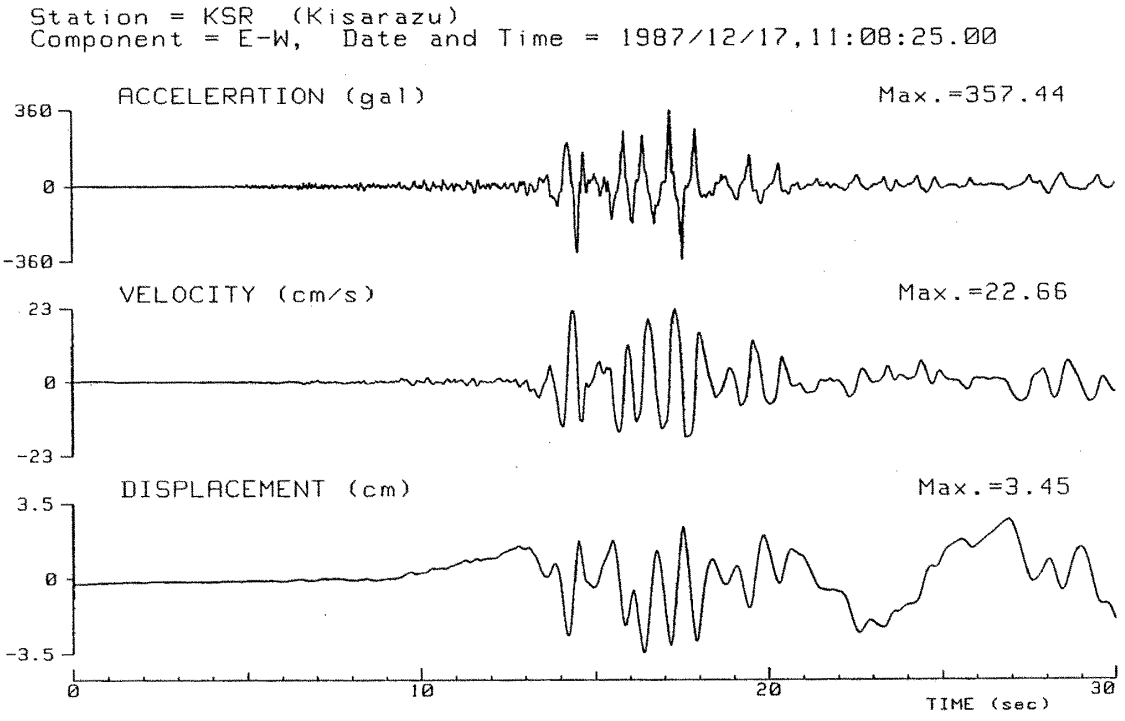
(c)


Station = KSR (Kisarazu)
Component = N-S
ACCELERATION (gal)
380
0
-380
VELOCITY (cm/s)
31
0
-31
DISPLACEMENT (cm)
10
0
-10
90
100
110
120
TIME (sec)

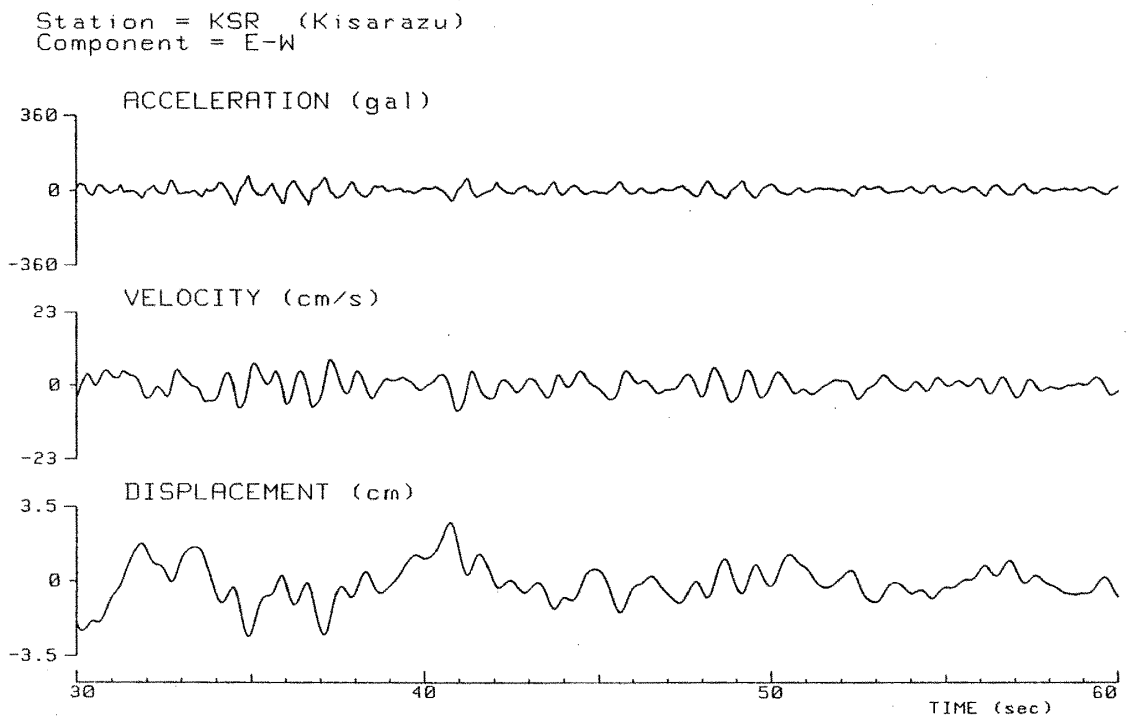
(d)


Station = KSR (Kisarazu)
Component = N-S
ACCELERATION (gal)
380
0
-380
VELOCITY (cm/s)
31
0
-31
DISPLACEMENT (cm)
10
0
-10
120
130
140
150
TIME (sec)

(e)

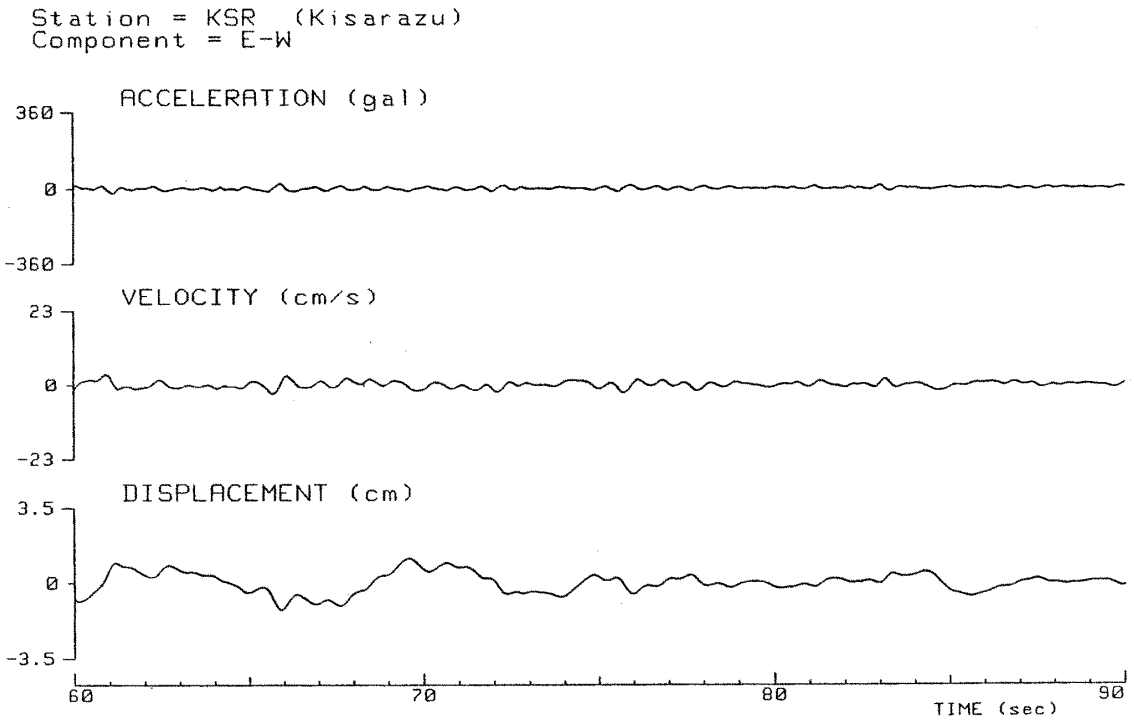


(a)

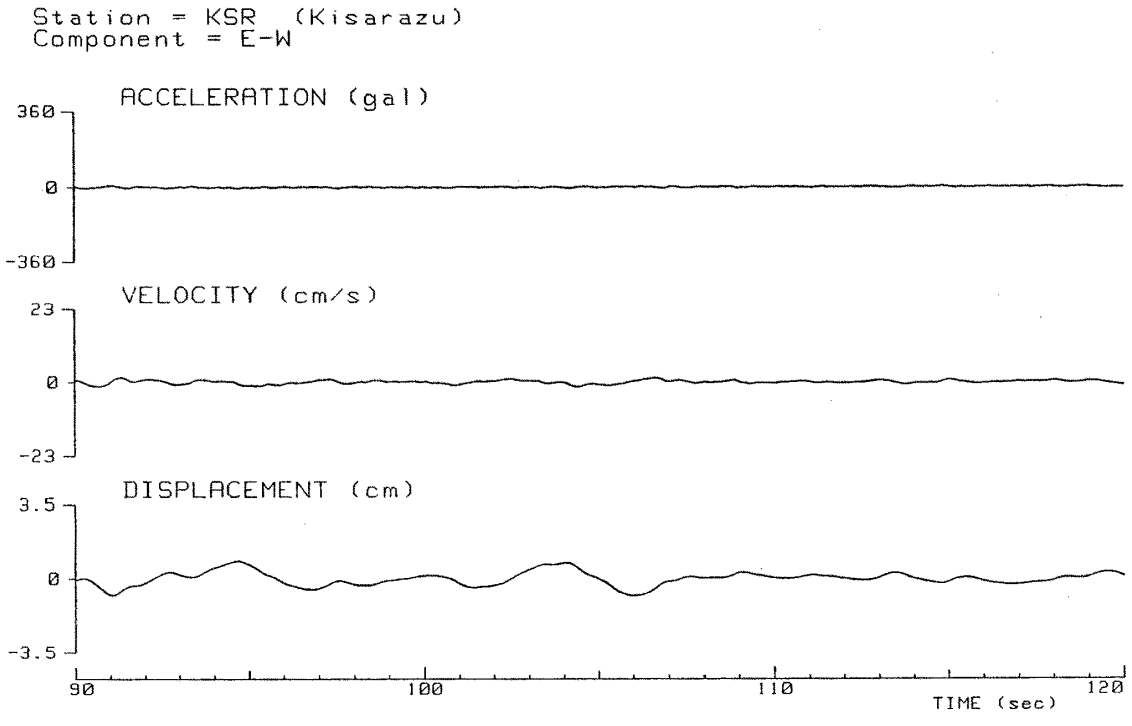


(b)

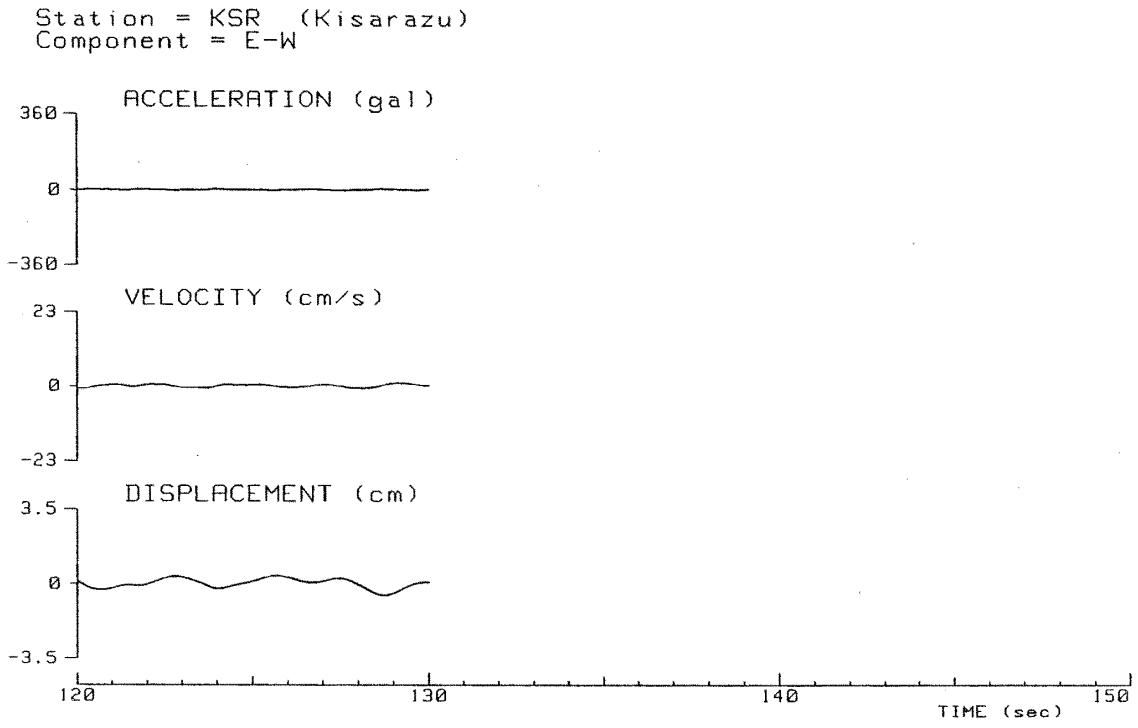
(4−8) KSR, EW-component


Station = KSR (Kisarazu)
Component = E-W
ACCELERATION (gal)
360
0
-360
VELOCITY (cm/s)
23
0
-23
DISPLACEMENT (cm)
3.5
0
-3.5
60
70
80
90
TIME (sec)

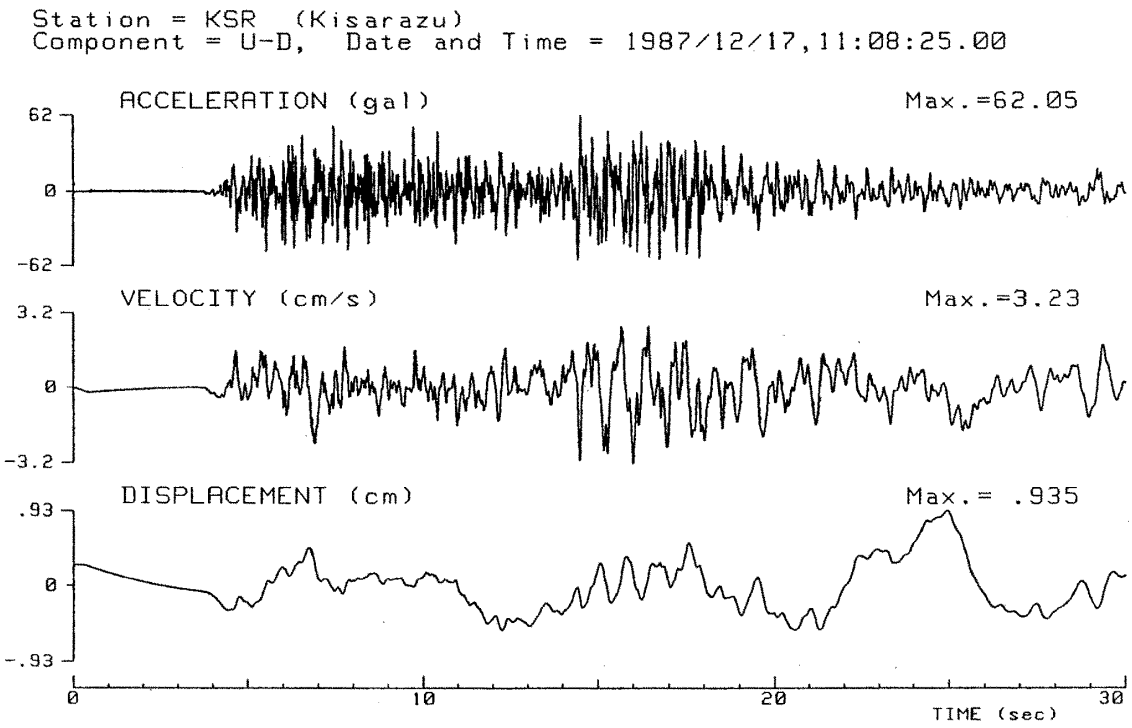
(c)


Station = KSR (Kisarazu)
Component = E-W
ACCELERATION (gal)
360
0
-360
VELOCITY (cm/s)
23
0
-23
DISPLACEMENT (cm)
3.5
0
-3.5
90
100
110
120
TIME (sec)

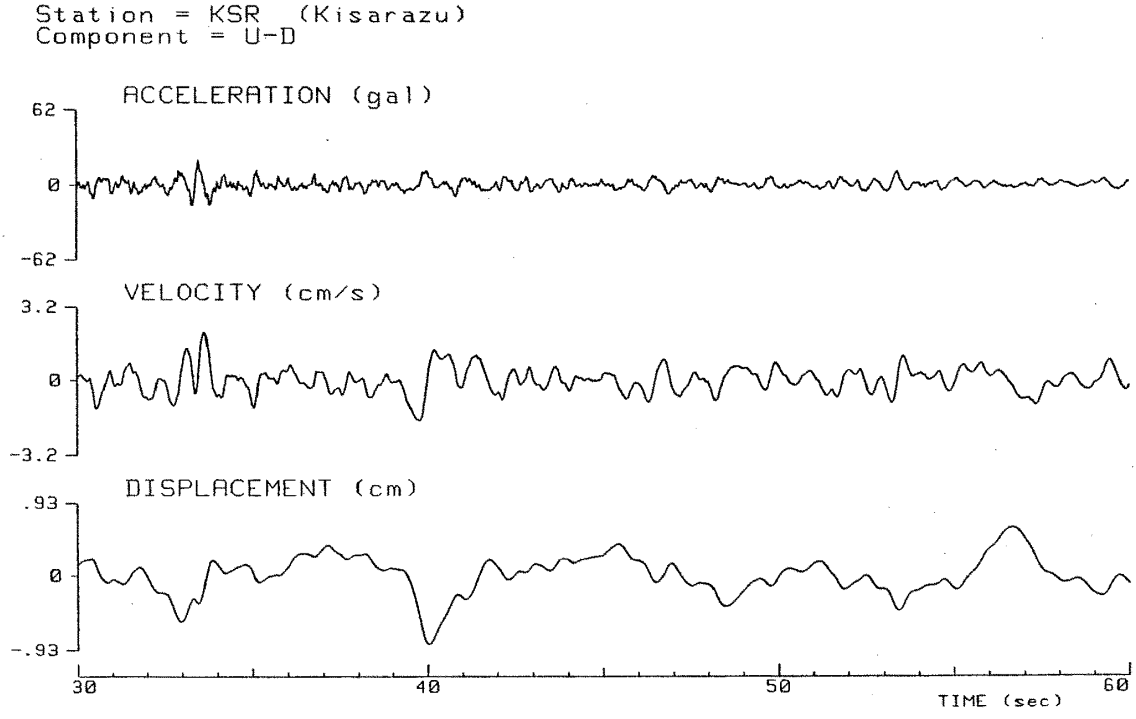
(d)


Station = KSR (Kisarazu)
Component = E-W
ACCELERATION (gal)
360
0
-360
VELOCITY (cm/s)
23
0
-23
DISPLACEMENT (cm)
3.5
0
-3.5
120
130
140
150
TIME (sec)

(e)

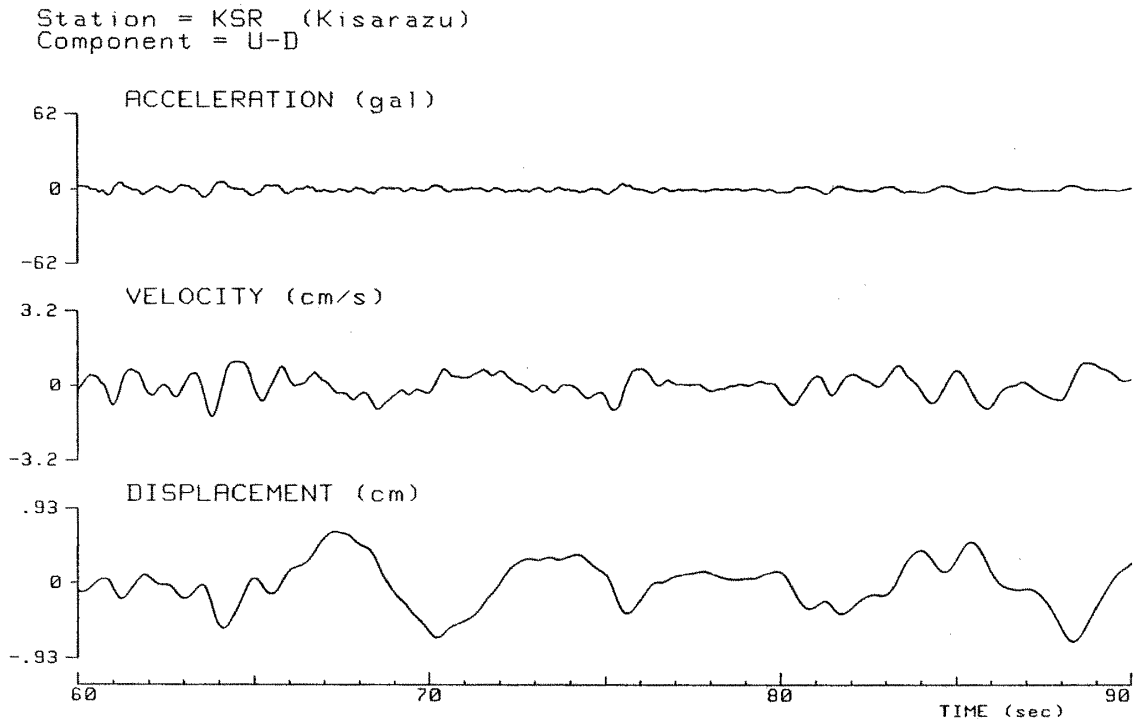


(a)

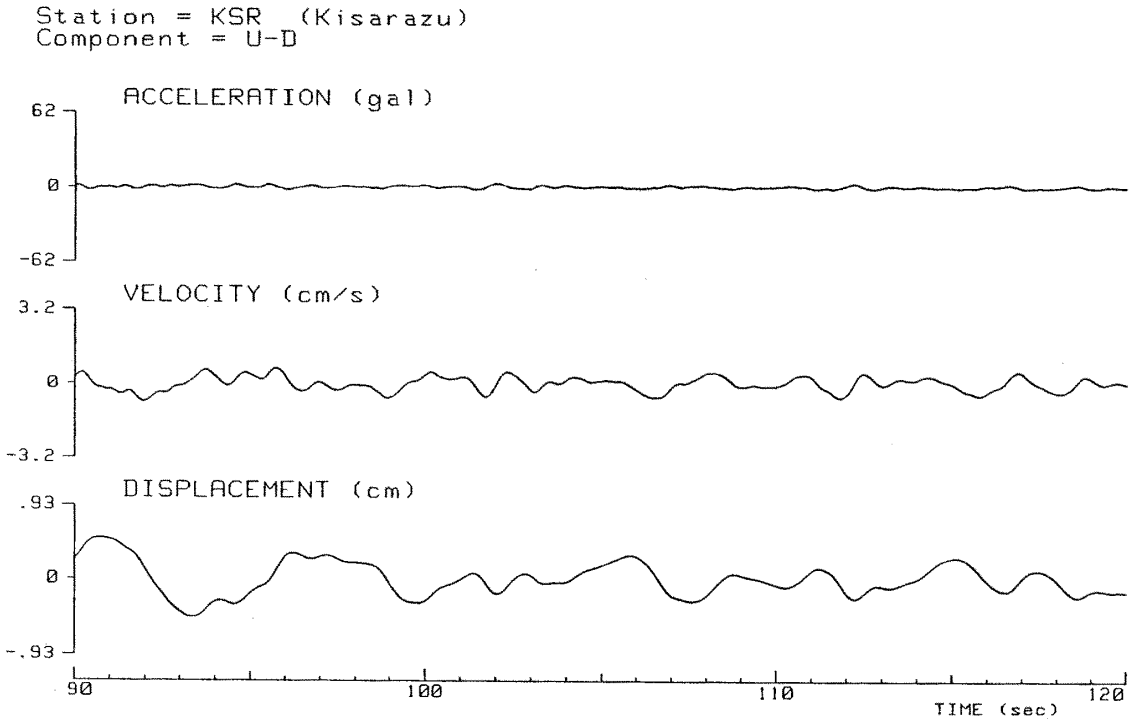


(b)

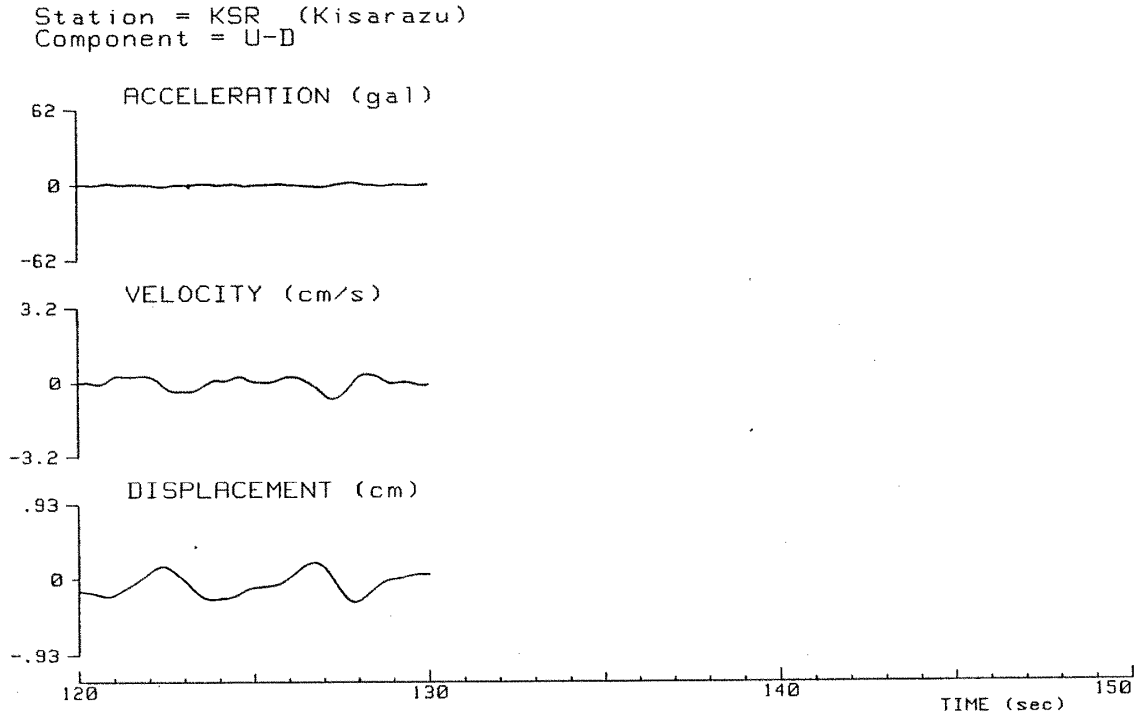
(4−9) KSR, UD-component


Station = KSR (Kisarazu)
Component = U-D
ACCELERATION (gal)
62
0
-62
VELOCITY (cm/s)
3.2
0
-3.2
DISPLACEMENT (cm)
.93
0
-.93
60
70
80
90
TIME (sec)

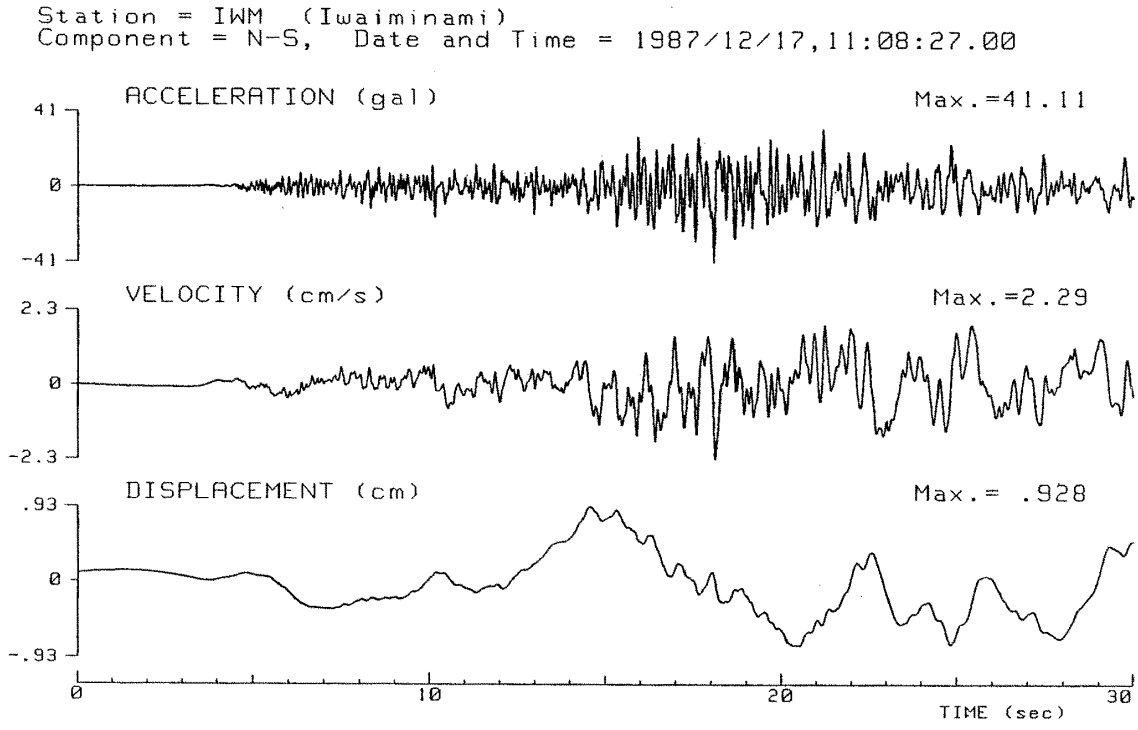
(c)


Station = KSR (Kisarazu)
Component = U-D
ACCELERATION (gal)
62
0
-62
VELOCITY (cm/s)
3.2
0
-3.2
DISPLACEMENT (cm)
.93
0
-.93
90
100
110
120
TIME (sec)

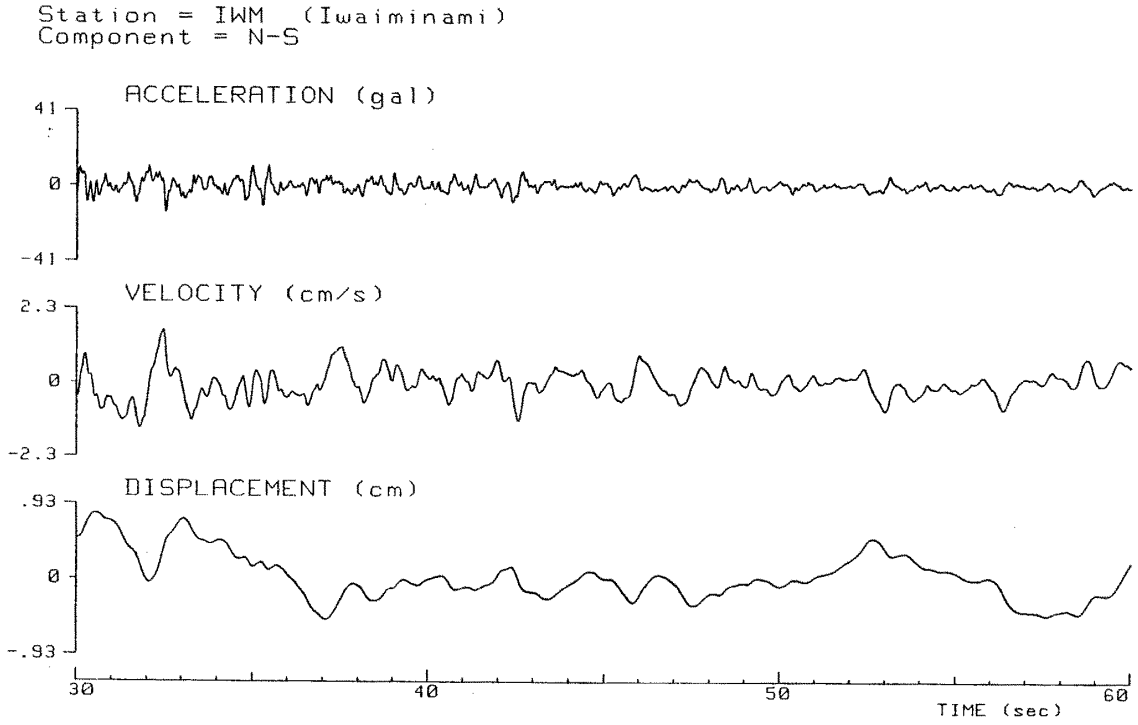
(d)


Station = KSR (Kisarazu)
Component = U-D
ACCELERATION (gal)
62
0
-62
VELOCITY (cm/s)
3.2
0
-3.2
DISPLACEMENT (cm)
.93
0
-.93
120
130
140
150
TIME (sec)

(e)

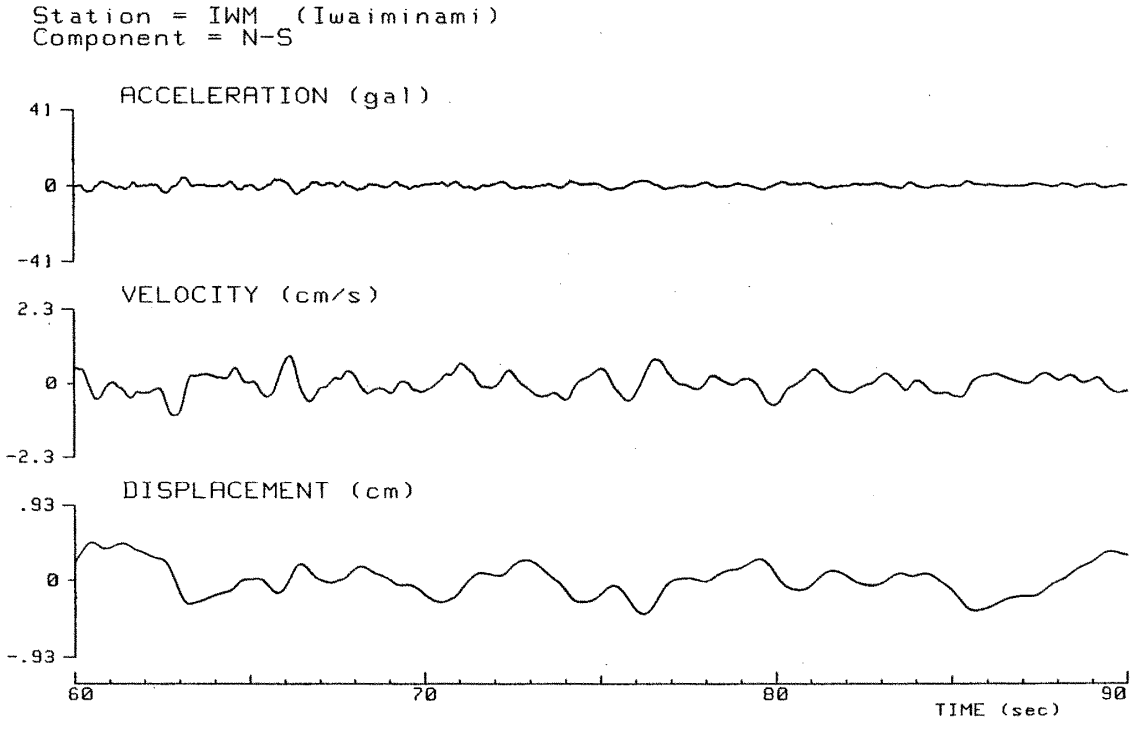


(a)

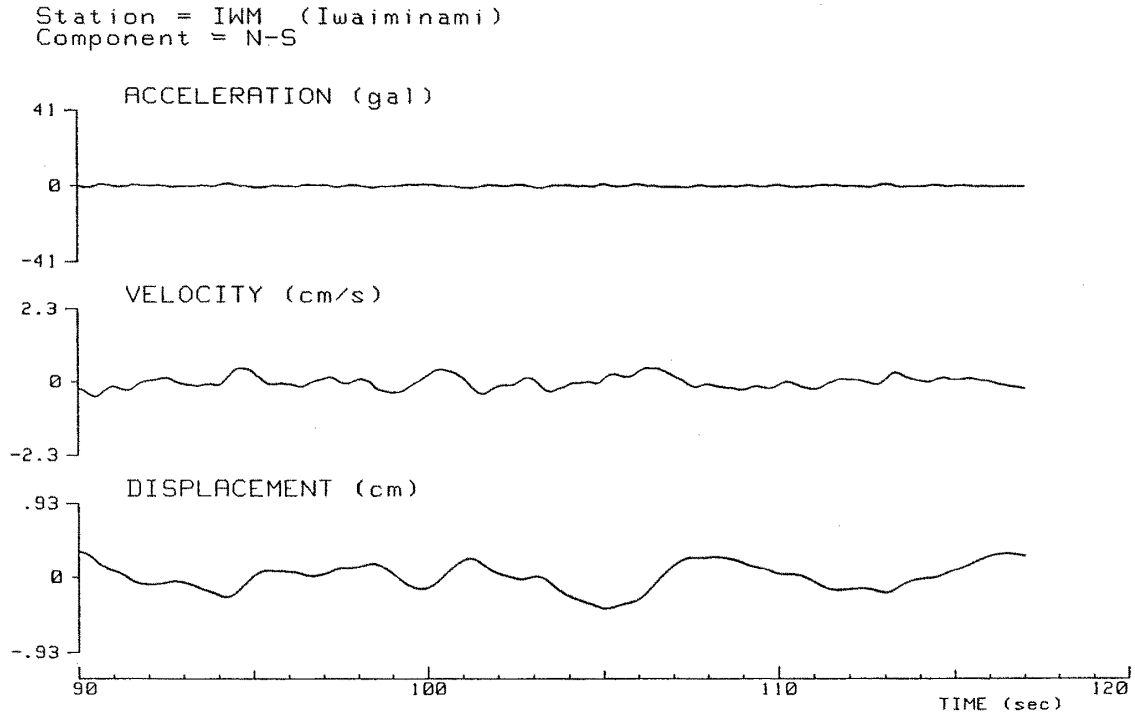


(b)

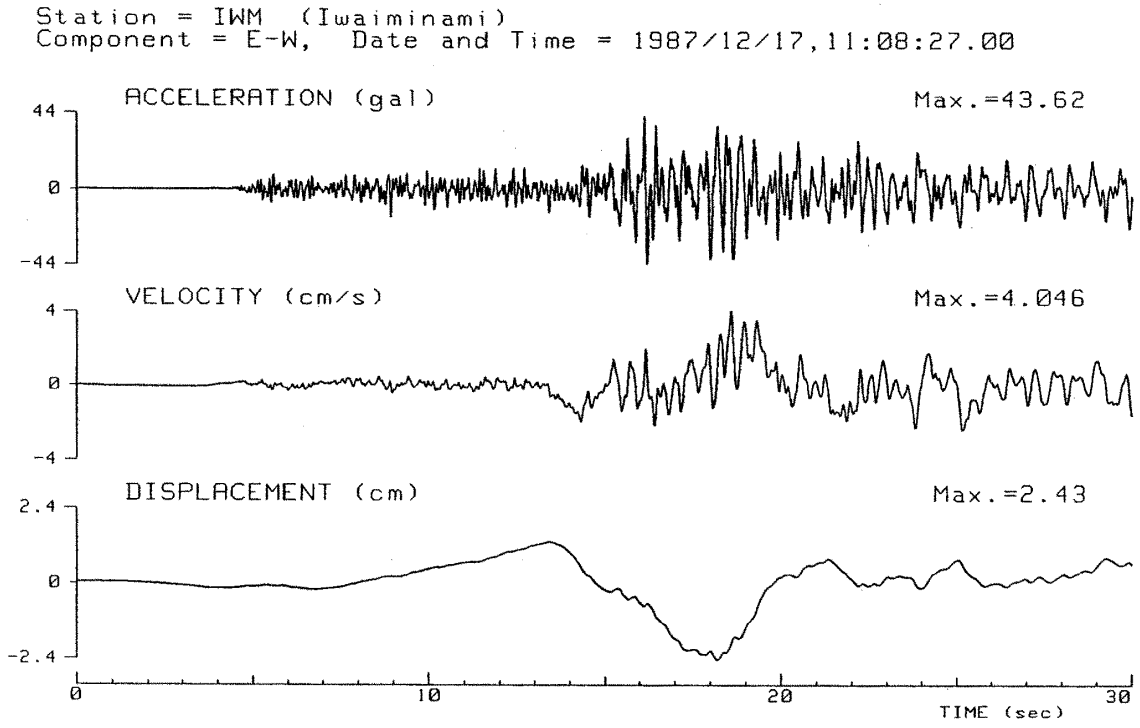
(4−10) IWM, NS-component


Station = IWM (Iwaiminami)
Component = N-S
ACCELERATION (gal)
41
0
-41
VELOCITY (cm/s)
2.3
0
-2.3
DISPLACEMENT (cm)
.93
0
-.93
60
70
80
90
TIME (sec)

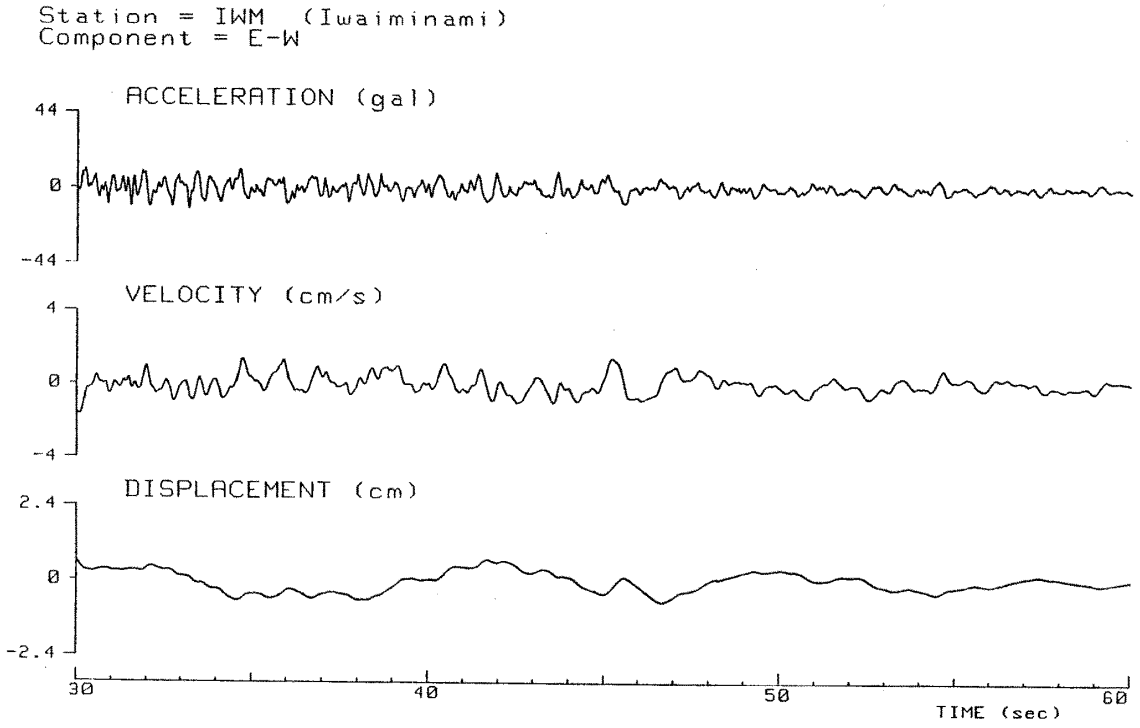
(c)


Station = IWM (Iwaiminami)
Component = N-S
ACCELERATION (gal)
41
0
-41
VELOCITY (cm/s)
2.3
0
-2.3
DISPLACEMENT (cm)
.93
0
-.93
90
100
110
120
TIME (sec)

(d)

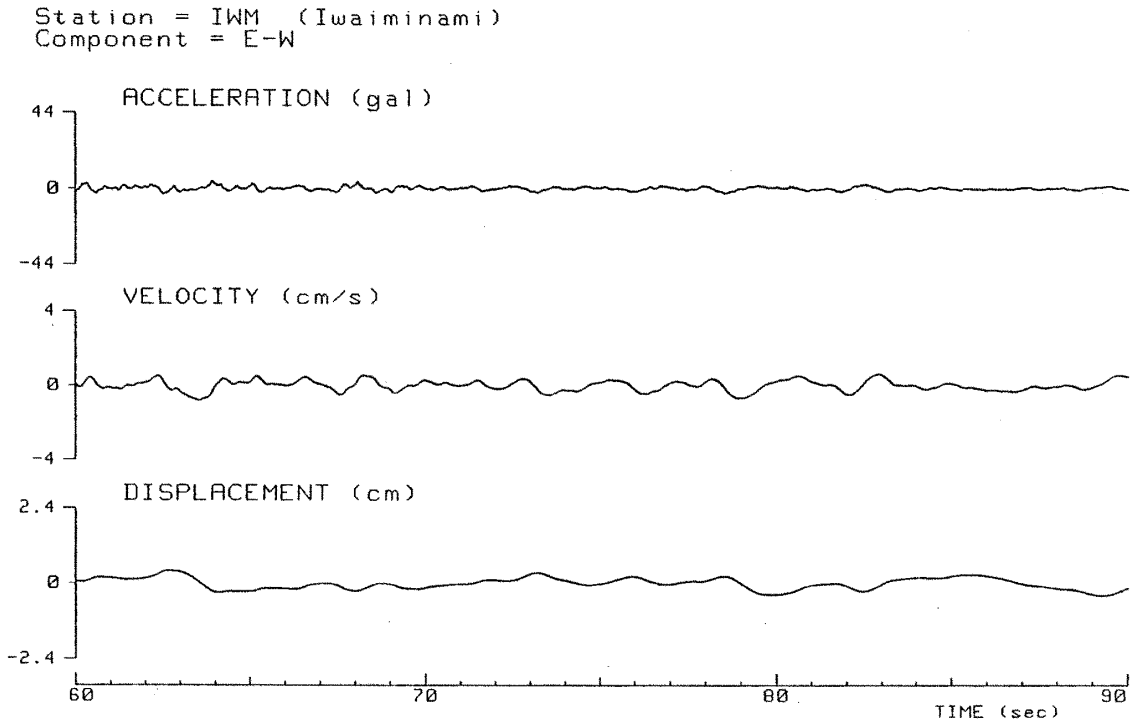


(a)

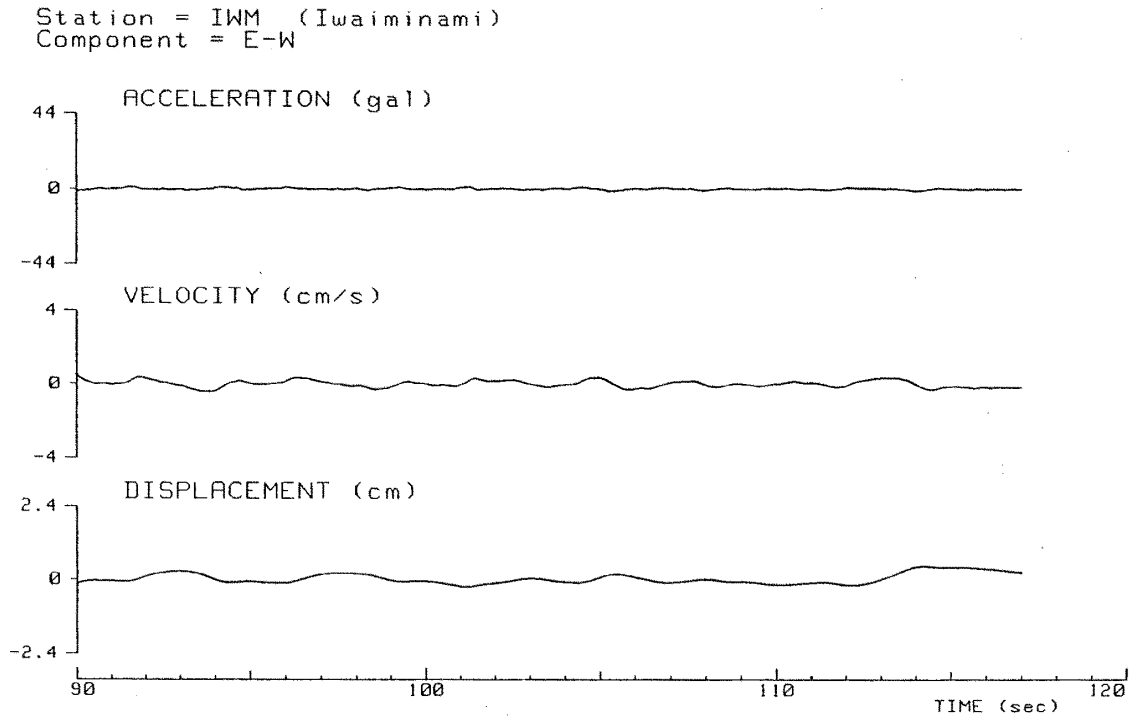


(b)

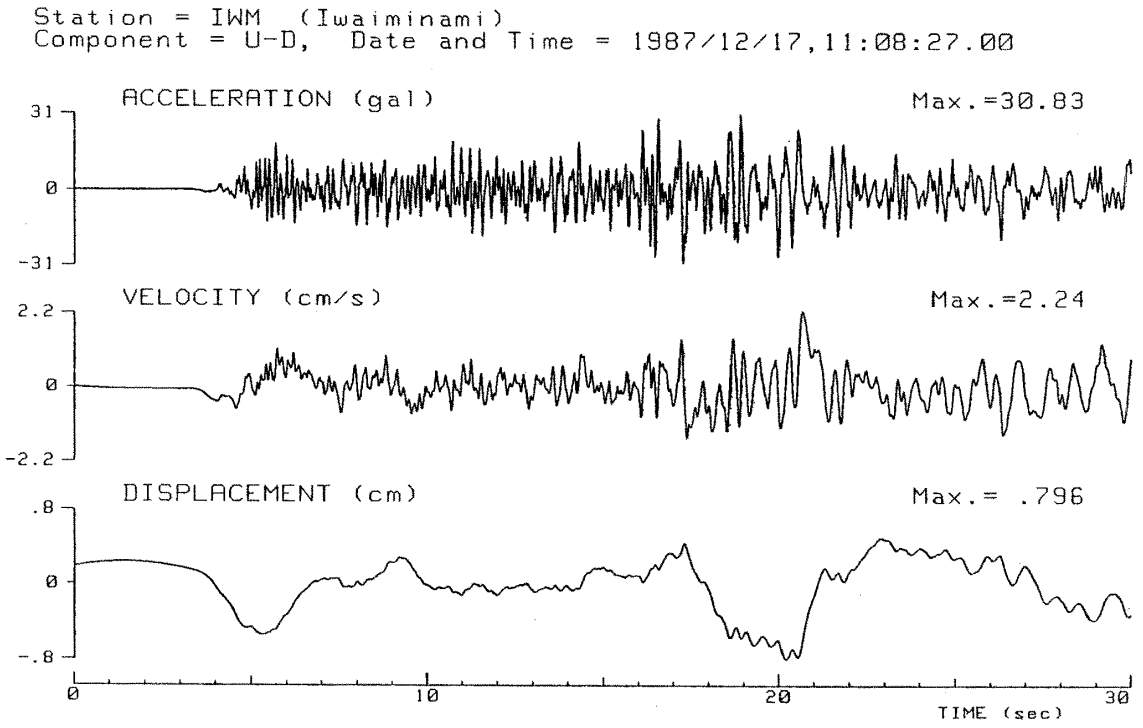
(4−11) IWM, EW-component


Station = IWM (Iwaiminami)
Component = E-W
ACCELERATION (gal)
44
0
-44
VELOCITY (cm/s)
4
0
-4
DISPLACEMENT (cm)
2.4
0
-2.4
60
70
80
90
TIME (sec)

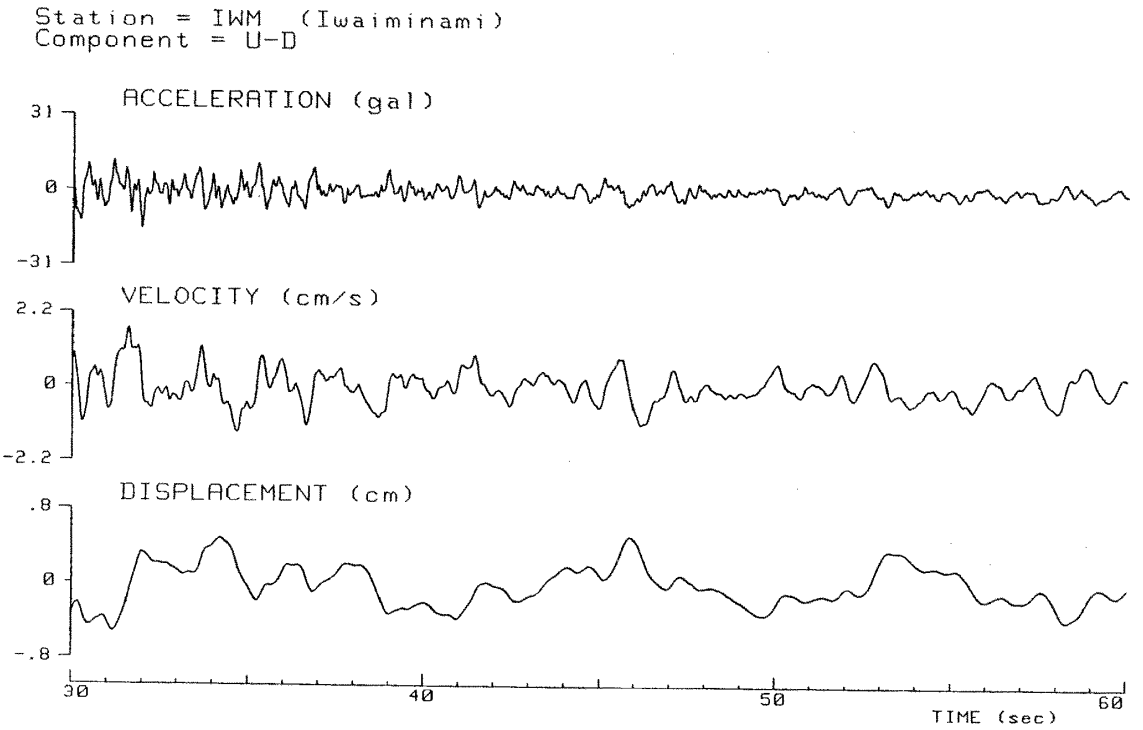
(c)


Station = IWM (Iwaiminami)
Component = E-W
ACCELERATION (gal)
44
0
-44
VELOCITY (cm/s)
4
0
-4
DISPLACEMENT (cm)
2.4
0
-2.4
90
100
110
120
TIME (sec)

(d)

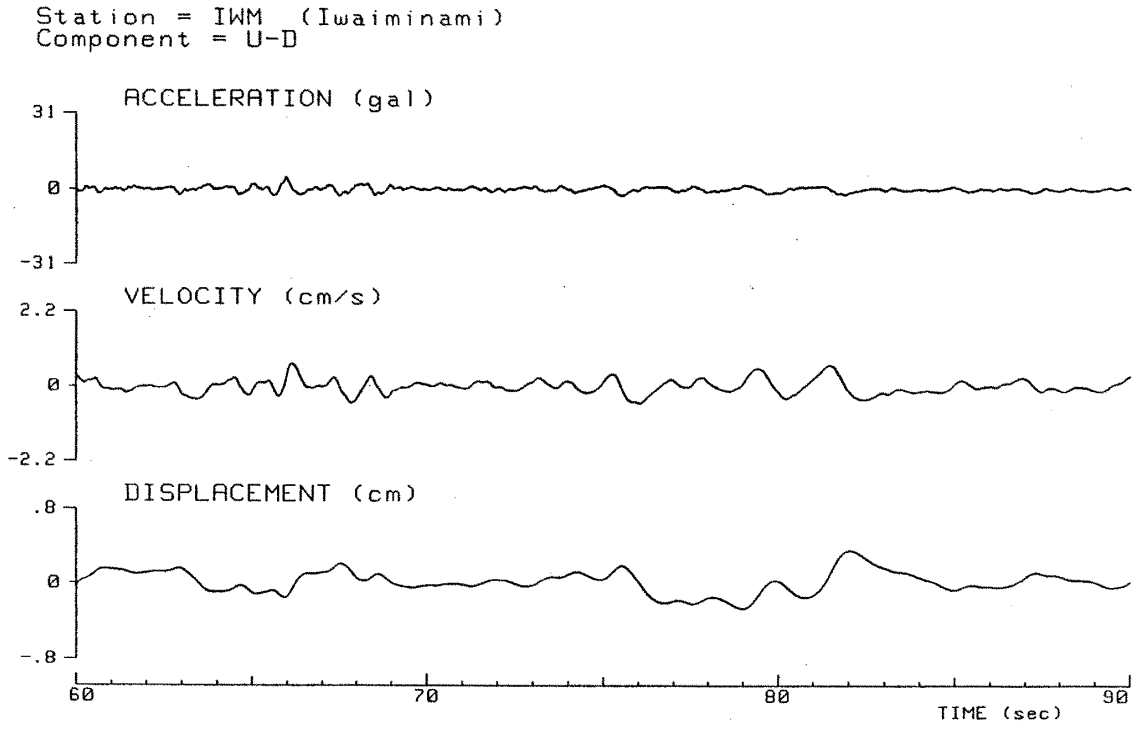


(a)

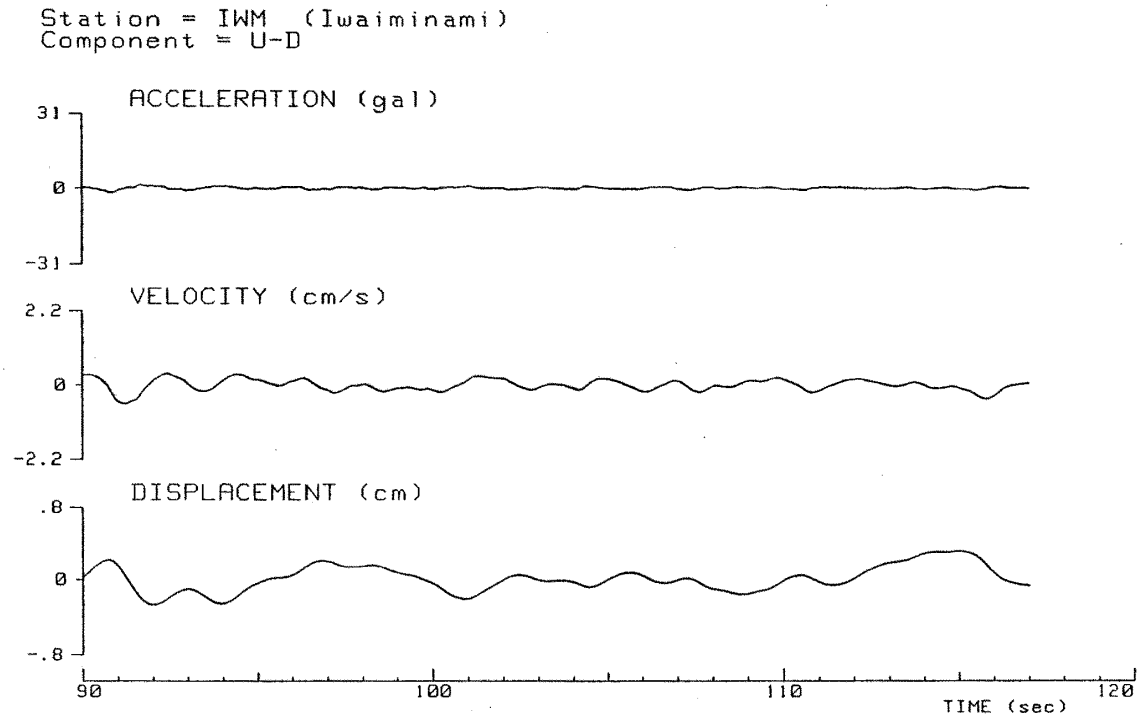


(b)

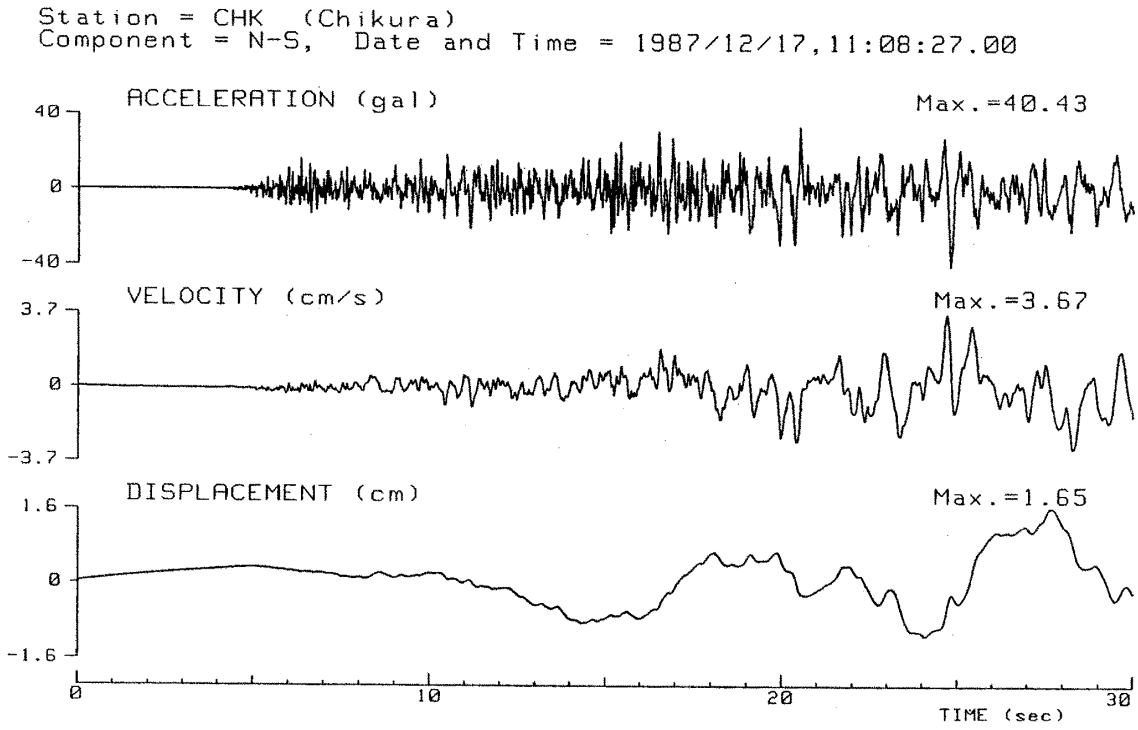
(4−12) IWM, UD-component


Station = IWM (Iwaiminami)
Component = U-D
ACCELERATION (gal)
31
0
-31
VELOCITY (cm/s)
2.2
0
-2.2
DISPLACEMENT (cm)
.8
0
-.8
60
70
80
90
TIME (sec)

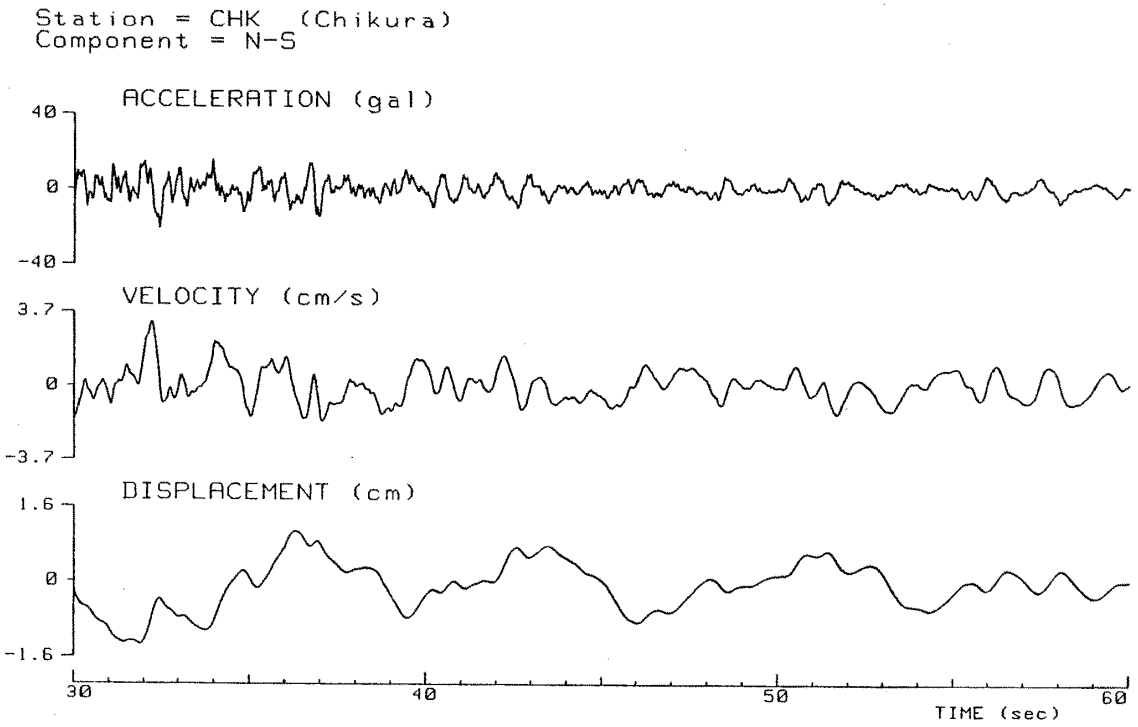
(c)


Station = IWM (Iwaiminami)
Component = U-D
ACCELERATION (gal)
31
0
-31
VELOCITY (cm/s)
2.2
0
-2.2
DISPLACEMENT (cm)
.8
0
-.8
90
100
110
120
TIME (sec)

(d)

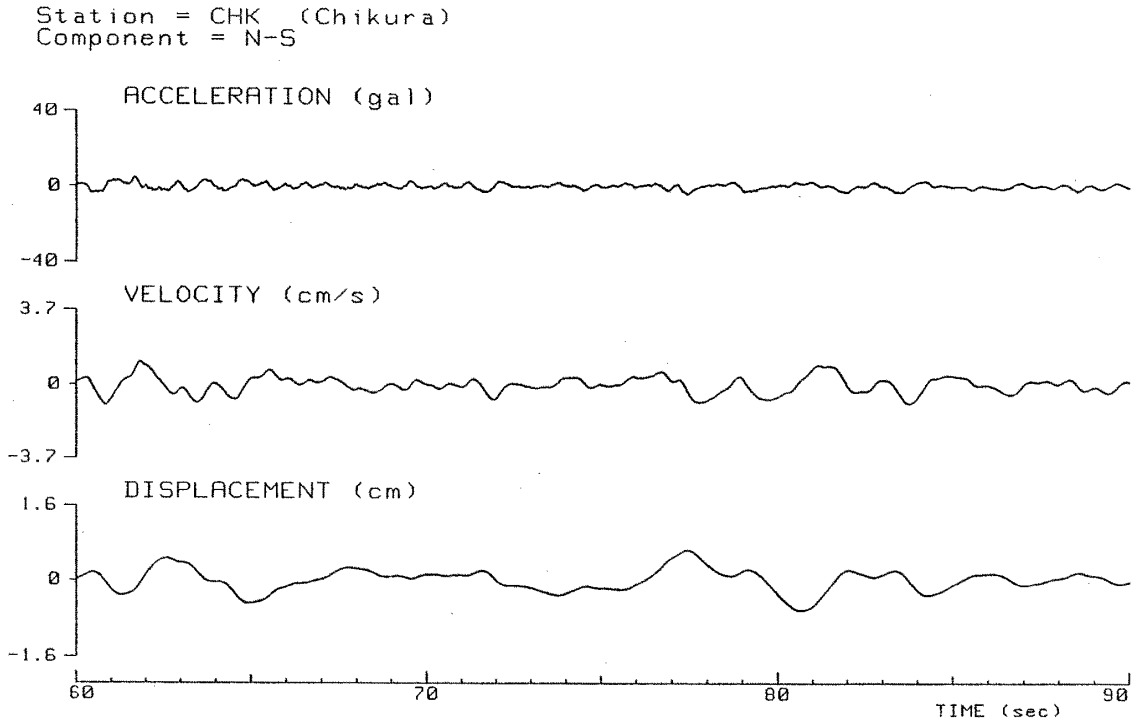


(a)

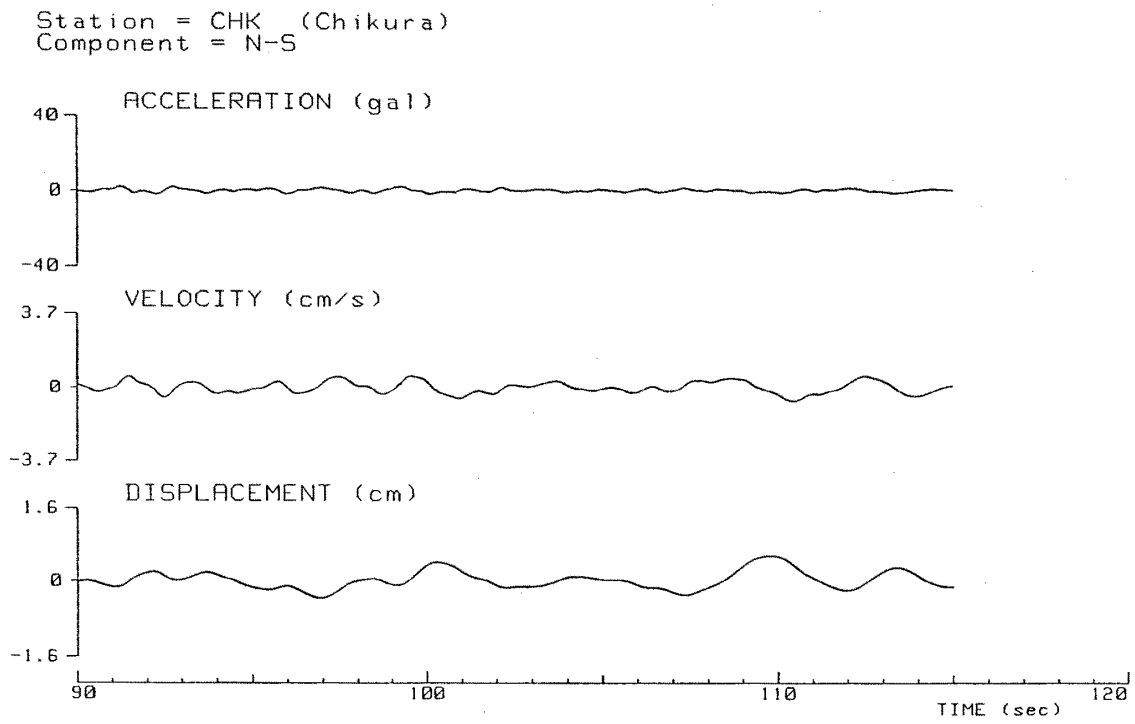


(b)

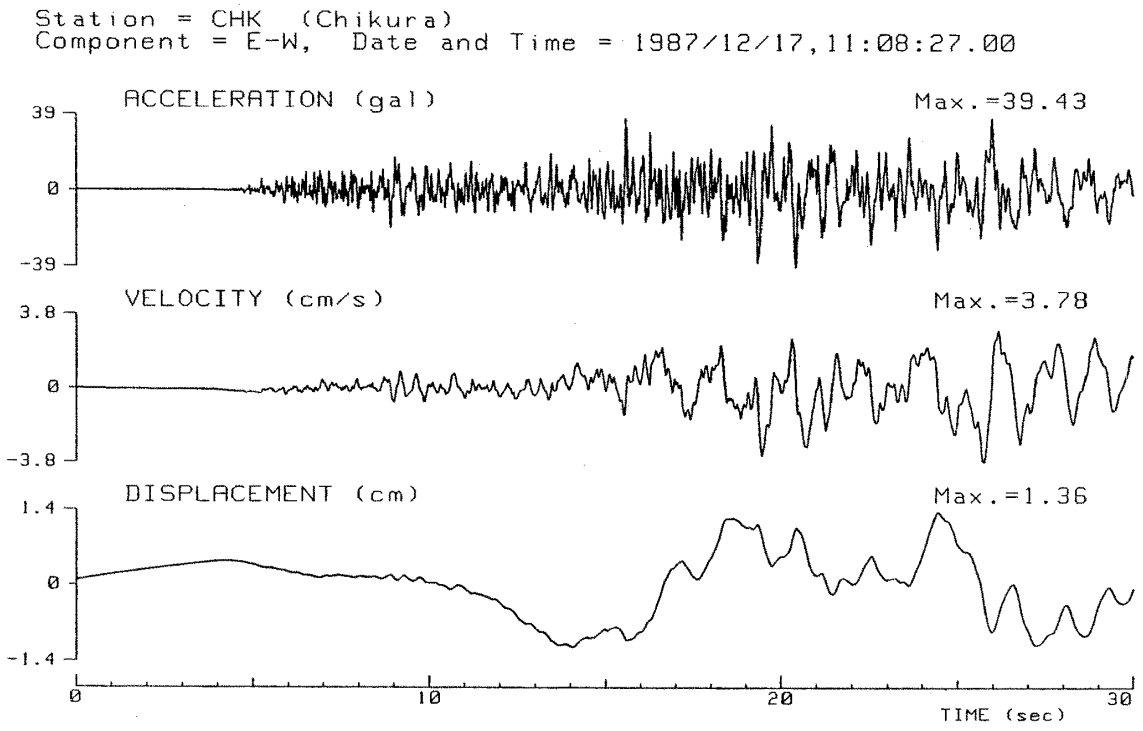
(4−13) CHK, NS-component


Station = CHK (Chikura)
Component = N-S
ACCELERATION (gal)
40
0
-40
VELOCITY (cm/s)
3.7
0
-3.7
DISPLACEMENT (cm)
1.6
0
-1.6
60
70
80
90
TIME (sec)

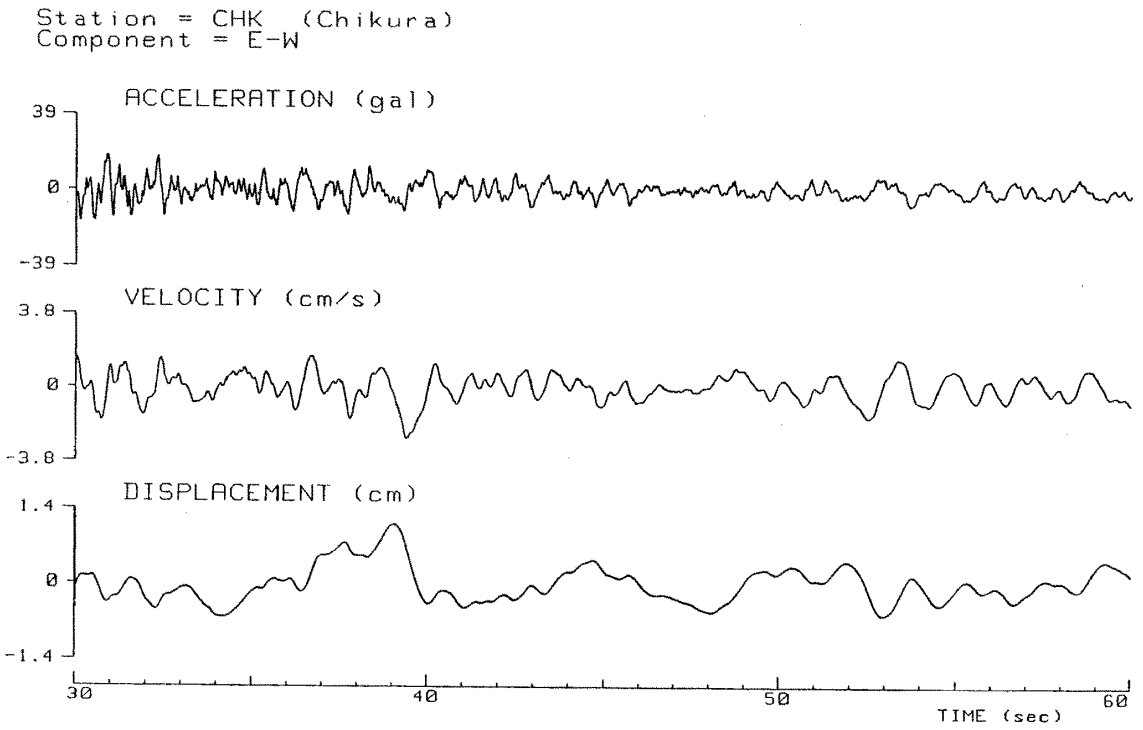
(c)


Station = CHK (Chikura)
Component = N-S
ACCELERATION (gal)
40
0
-40
VELOCITY (cm/s)
3.7
0
-3.7
DISPLACEMENT (cm)
1.6
0
-1.6
90
100
110
120
TIME (sec)

(d)

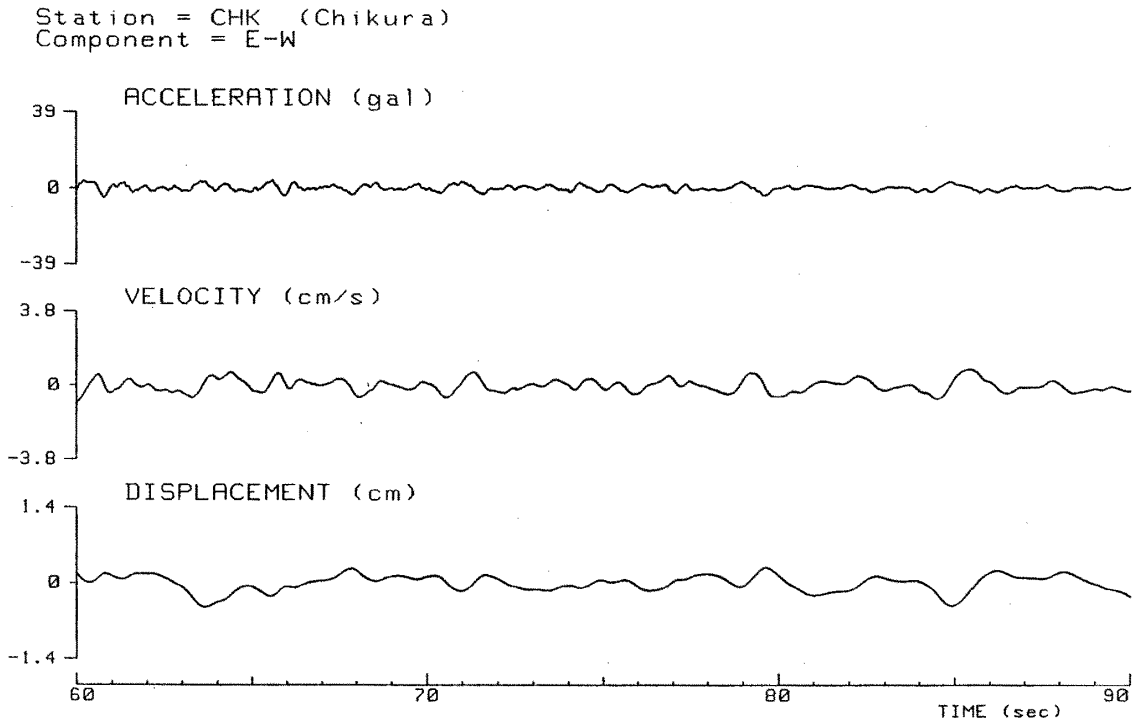


(a)

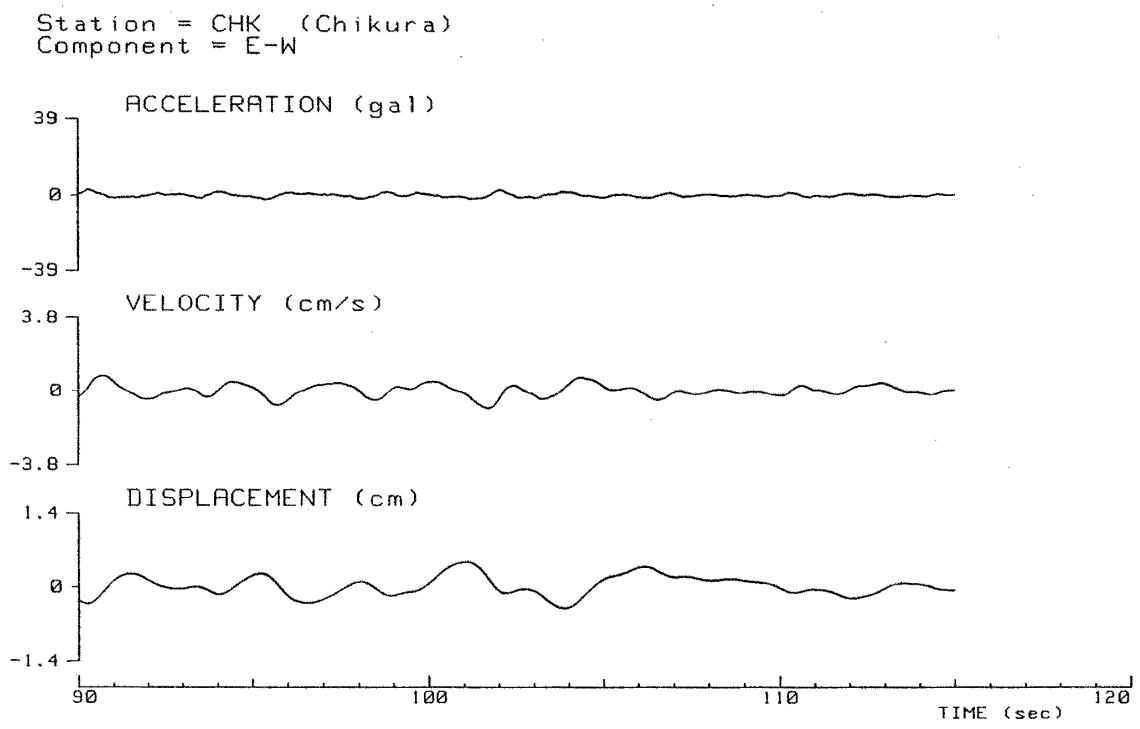


(b)

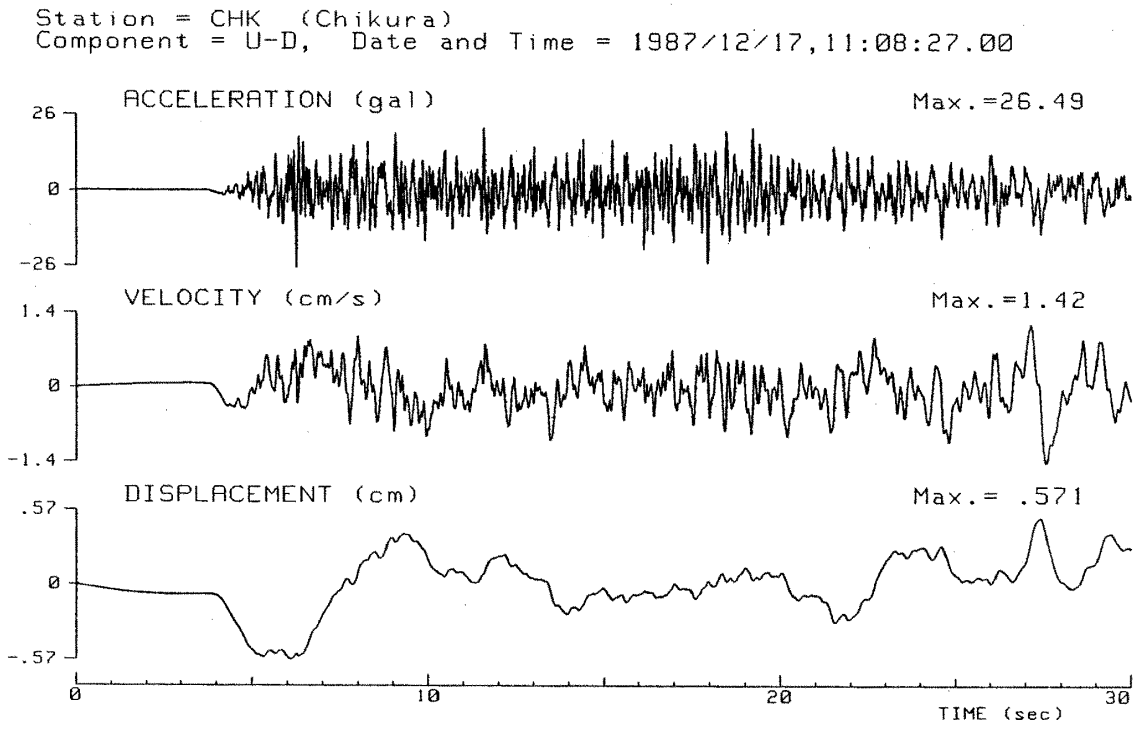
(4−14) CHK, EW-component


Station = CHK (Chikura)
Component = E-W
ACCELERATION (gal)
39
0
-39
VELOCITY (cm/s)
3.8
0
-3.8
DISPLACEMENT (cm)
1.4
0
-1.4
60
70
80
90
TIME (sec)

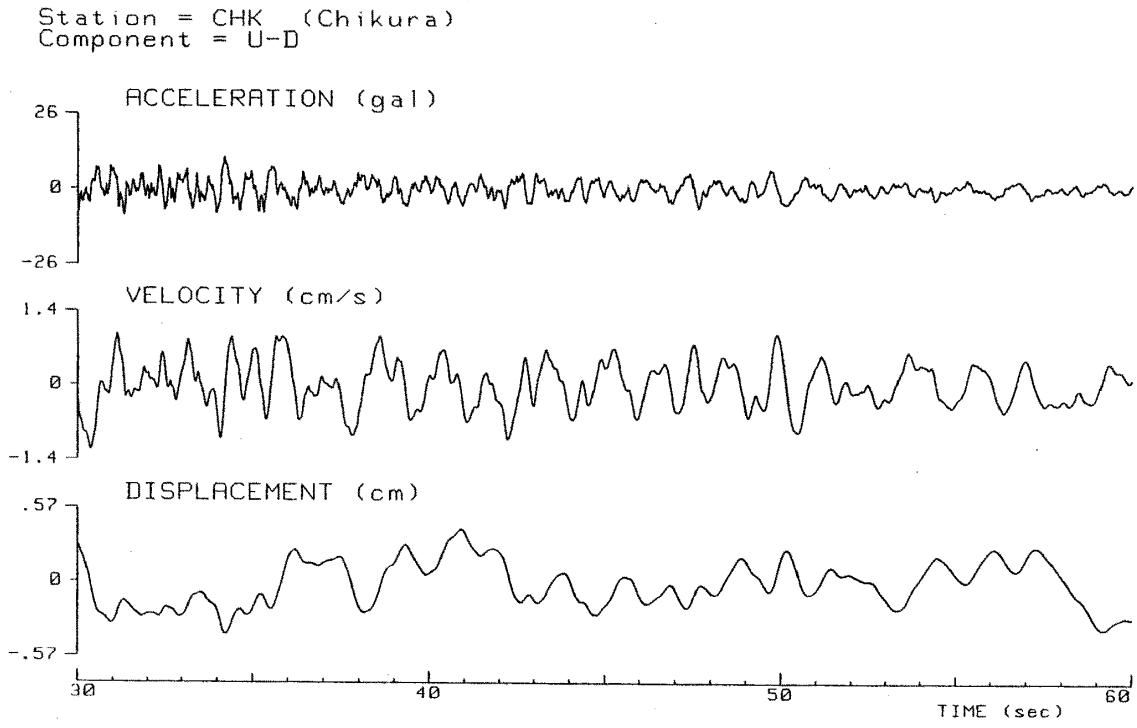
(c)


Station = CHK (Chikura)
Component = E-W
ACCELERATION (gal)
39
0
-39
VELOCITY (cm/s)
3.8
0
-3.8
DISPLACEMENT (cm)
1.4
0
-1.4
90
100
110
120
TIME (sec)

(d)

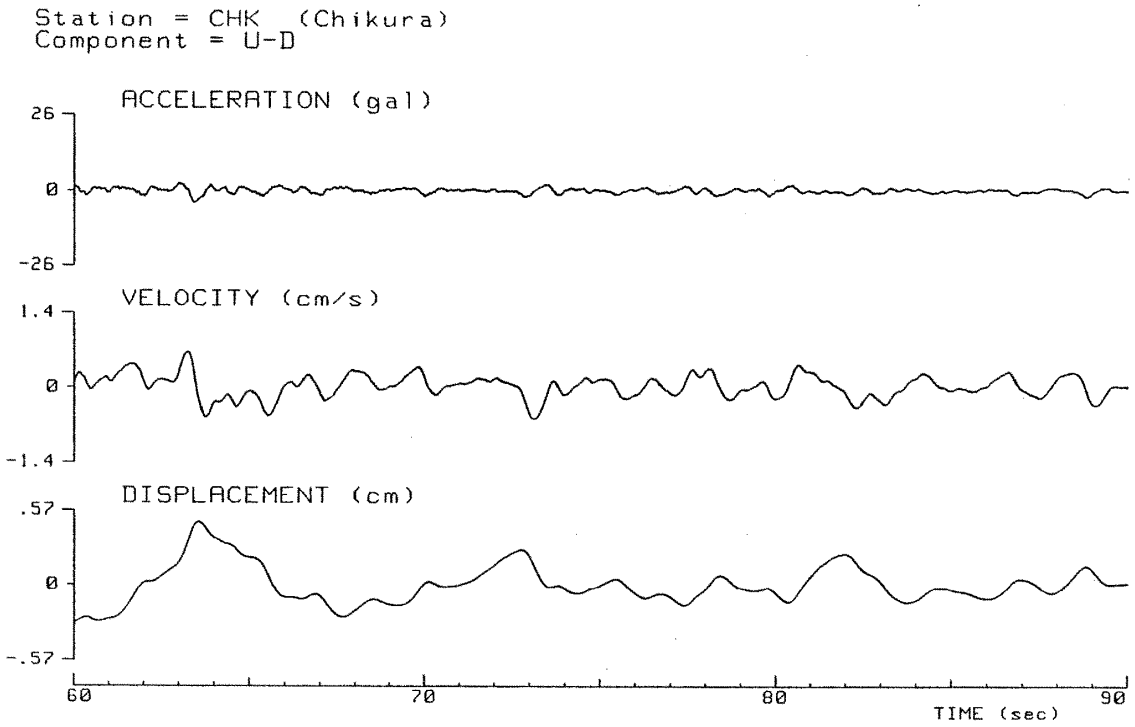


(a)

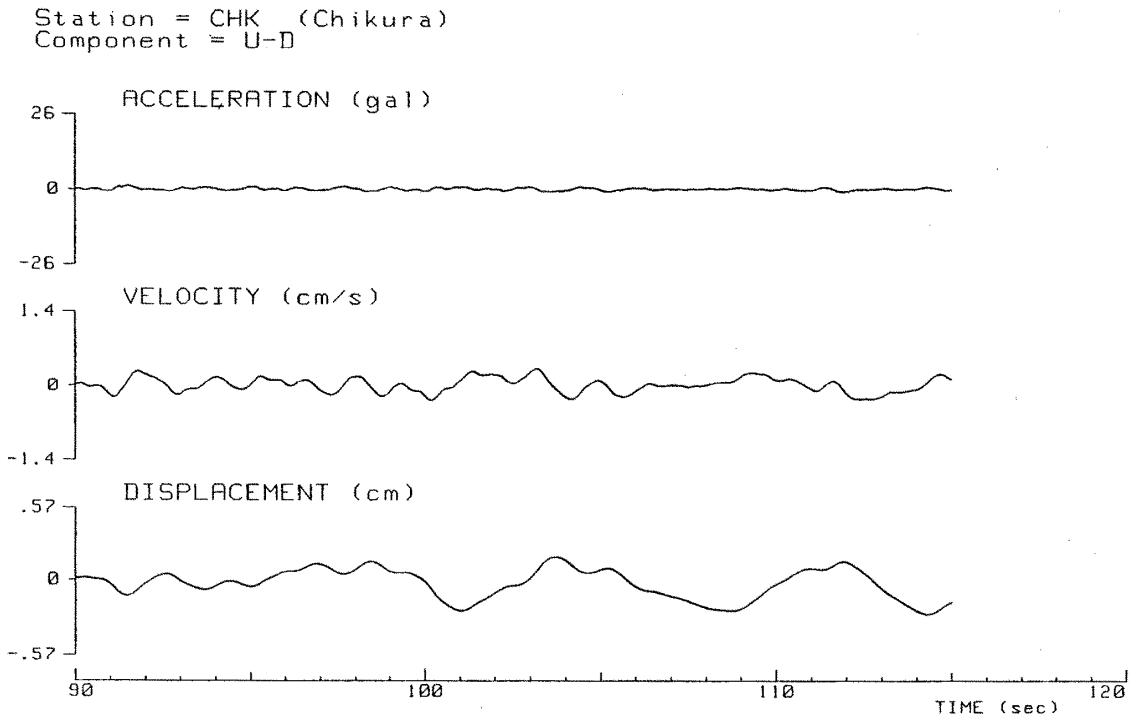


(b)

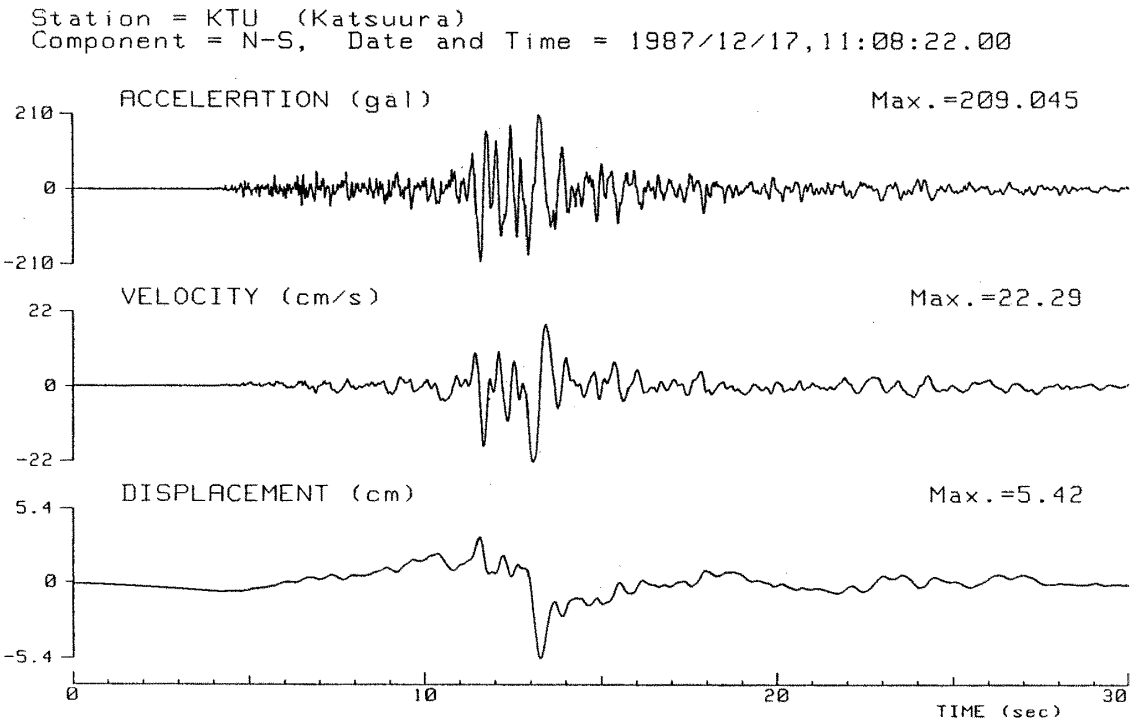
(4−15) CHK, UD-component


Station = CHK (Chikura)
Component = U-D
ACCELERATION (gal)
26
0
-26
VELOCITY (cm/s)
1.4
0
-1.4
DISPLACEMENT (cm)
.57
0
-.57
60
70
80
90
TIME (sec)

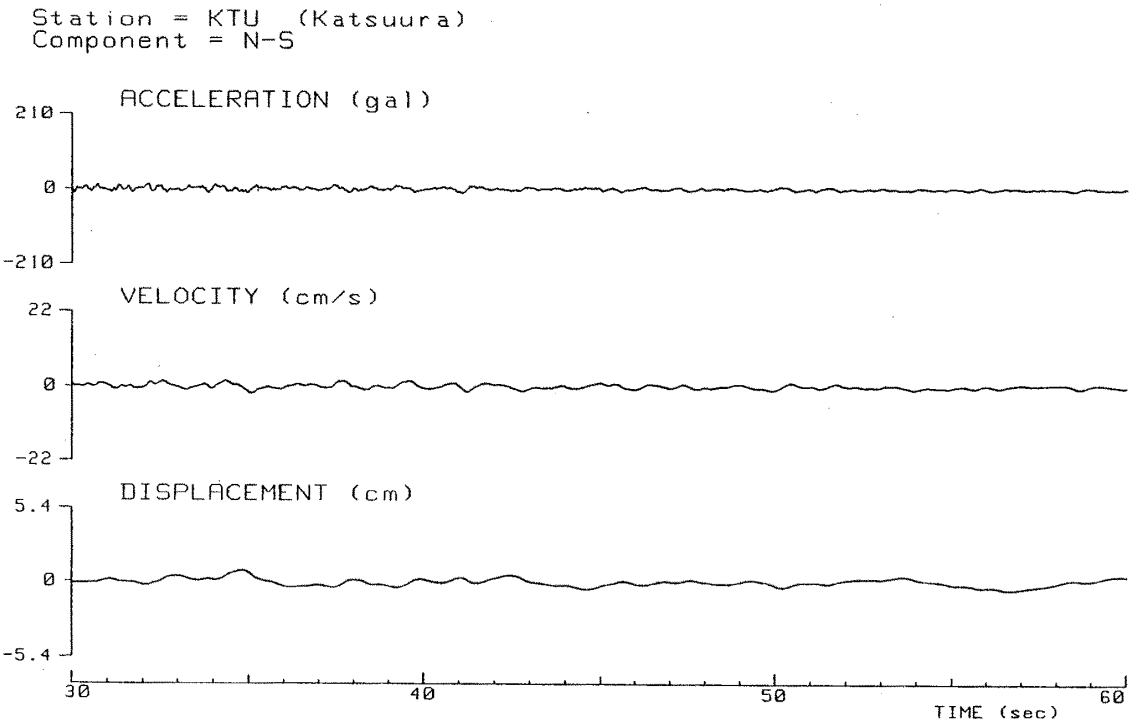
(c)


Station = CHK (Chikura)
Component = U-D
ACCELERATION (gal)
26
0
-26
VELOCITY (cm/s)
1.4
0
-1.4
DISPLACEMENT (cm)
.57
0
-.57
90
100
110
120
TIME (sec)

(d)

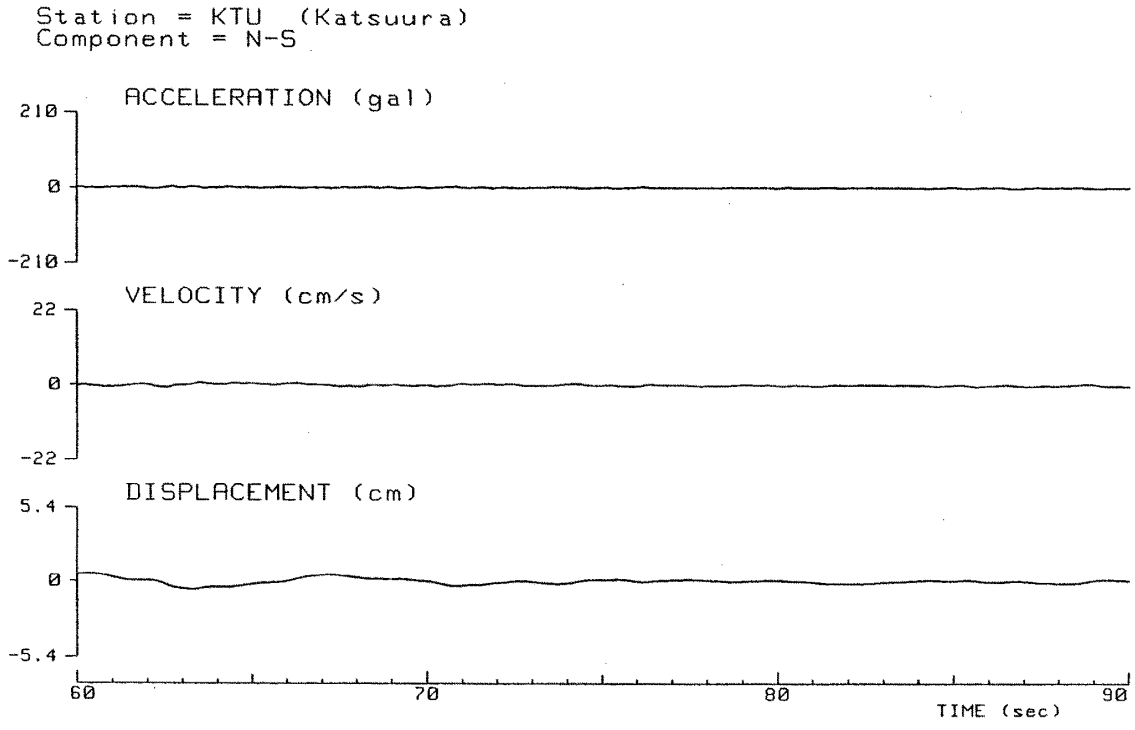


(a)

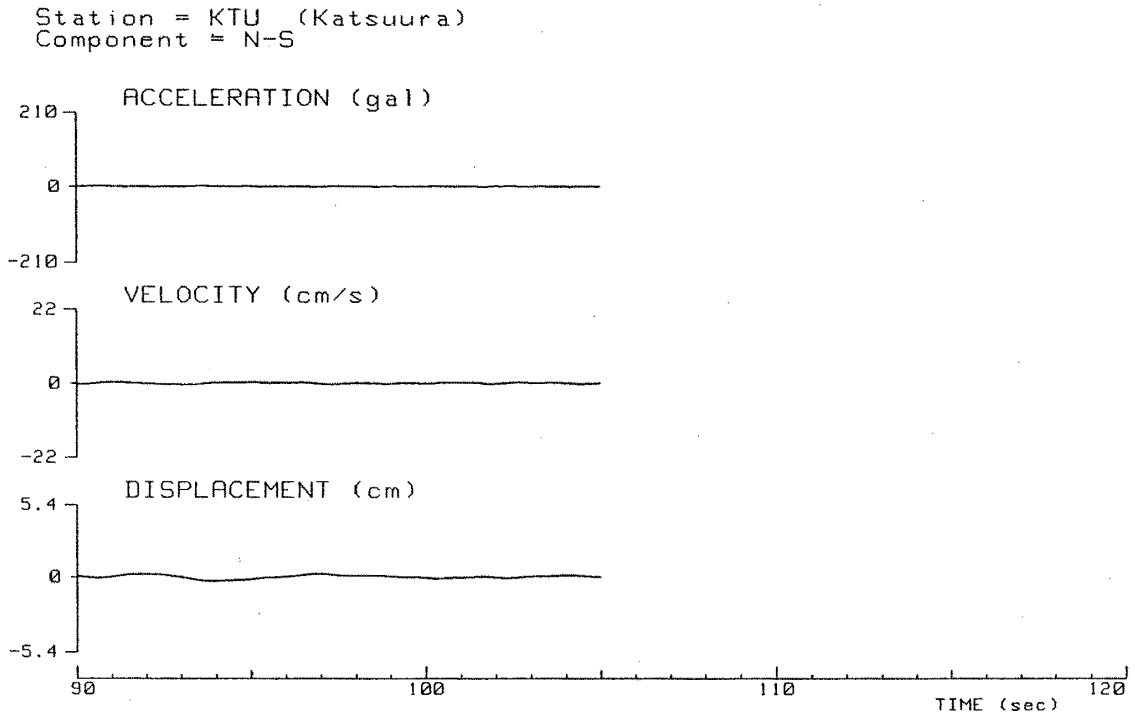


(b)

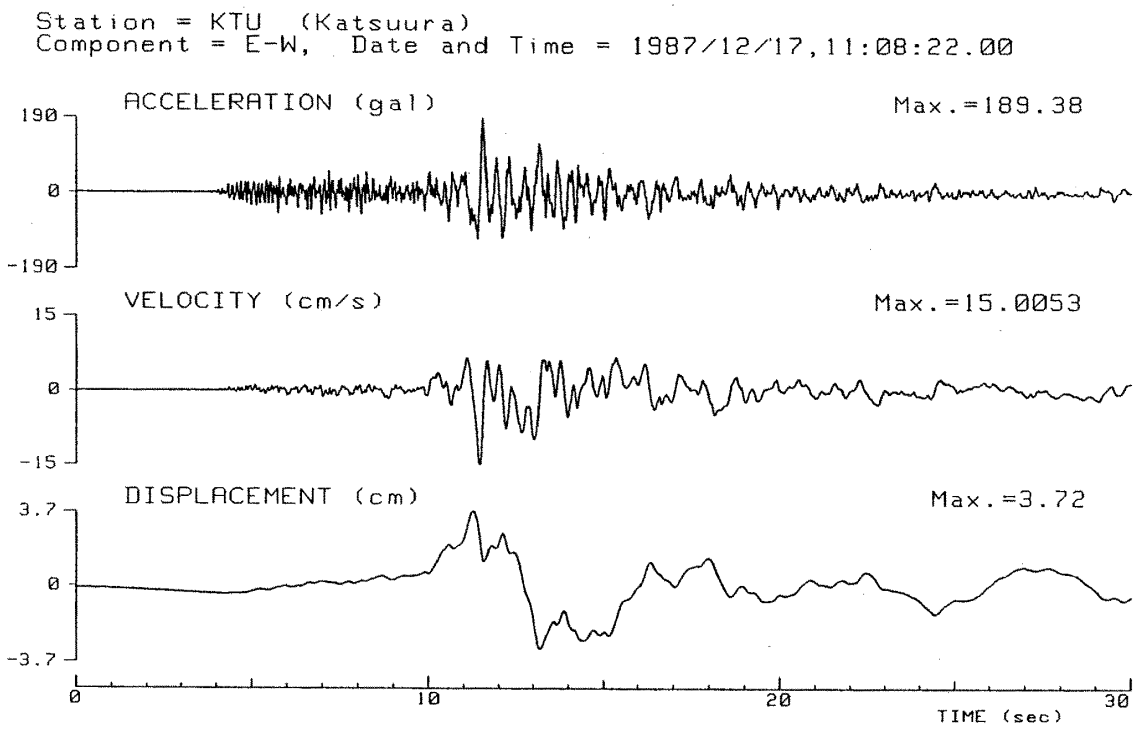
(4−16) KTU, NS-component


Station = KTU (Katsuura)
Component = N-S
ACCELERATION (gal)
210
0
-210
VELOCITY (cm/s)
22
0
-22
DISPLACEMENT (cm)
5.4
0
-5.4
60
70
80
90
TIME (sec)

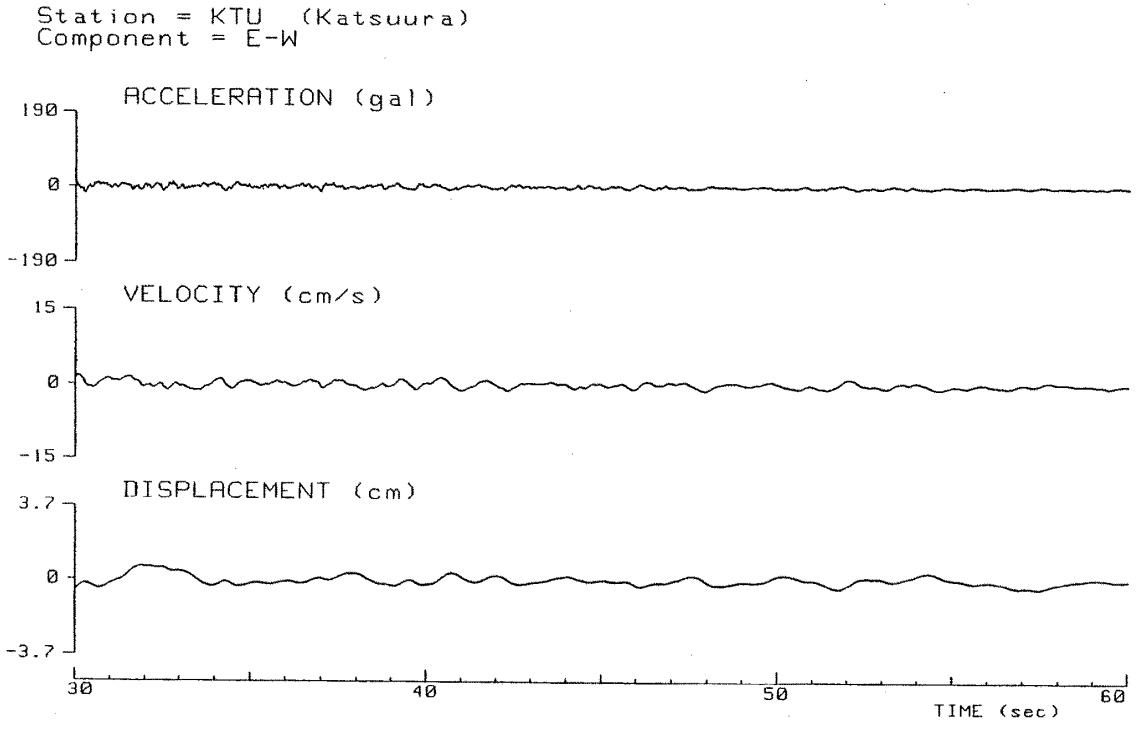
(c)


Station = KTU (Katsuura)
Component = N-S
ACCELERATION (gal)
210
0
-210
VELOCITY (cm/s)
22
0
-22
DISPLACEMENT (cm)
5.4
0
-5.4
90
100
110
120
TIME (sec)

(d)

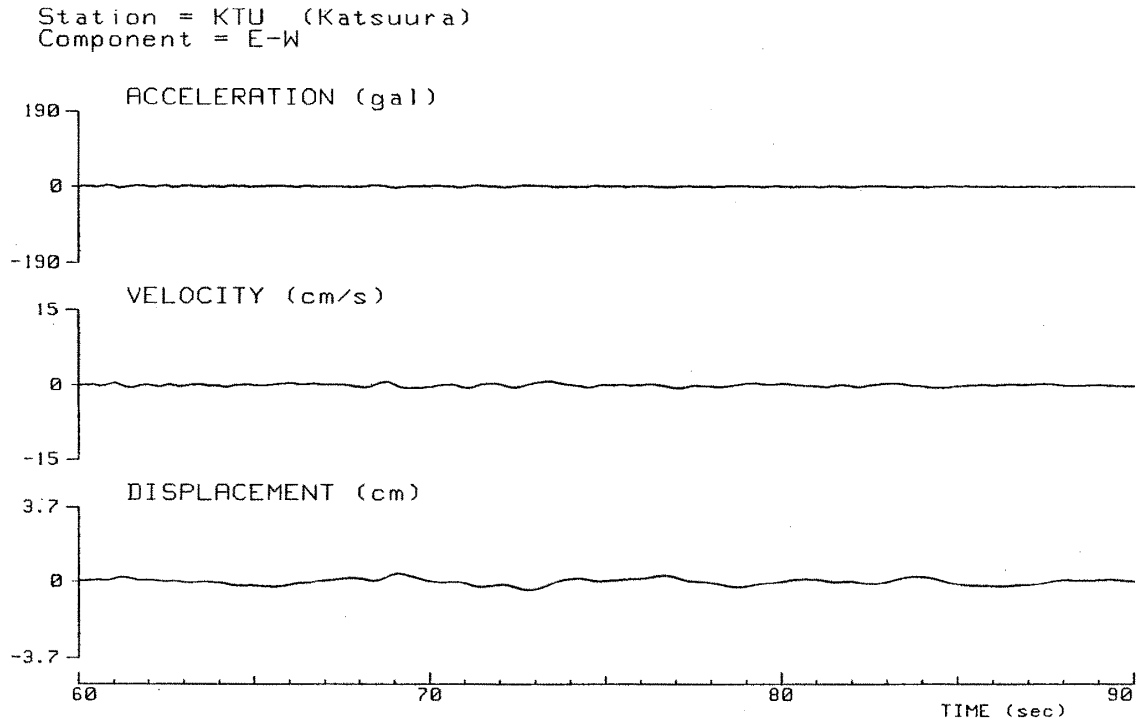


(a)

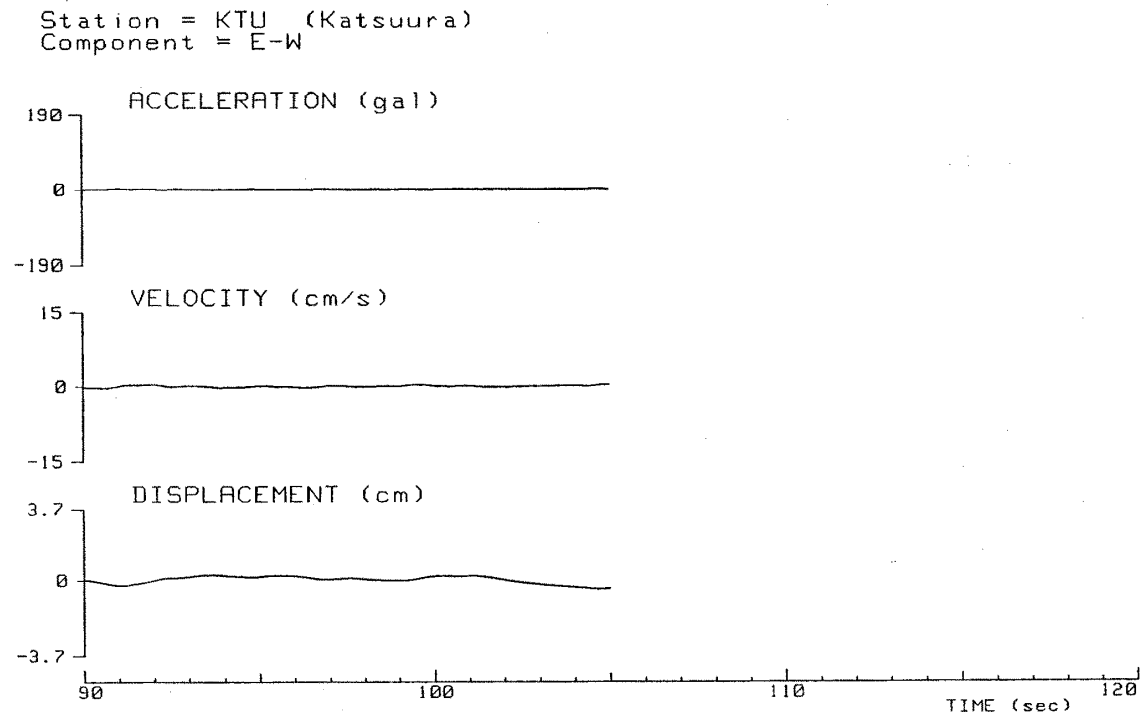


(b)

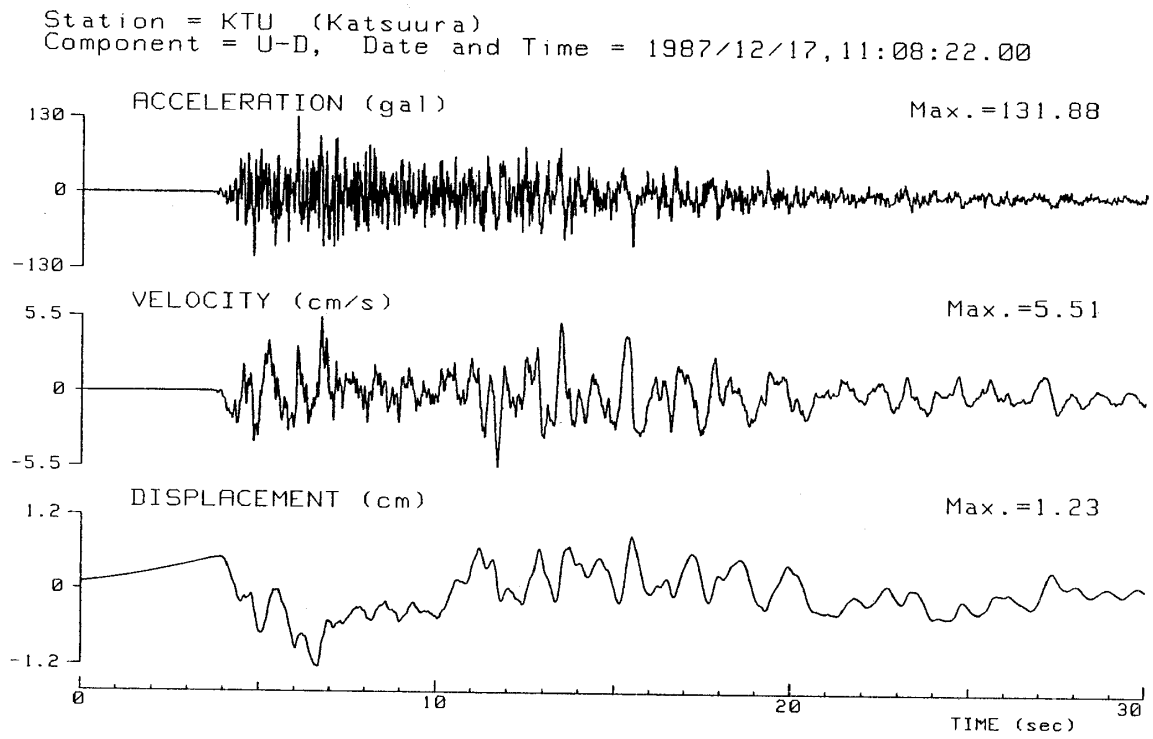
(4−17) KTU, EW-component


Station = KTU (Katsuura)
Component = E-W
ACCELERATION (gal)
190
0
-190
VELOCITY (cm/s)
15
0
-15
DISPLACEMENT (cm)
3.7
0
-3.7
60
70
80
90
TIME (sec)

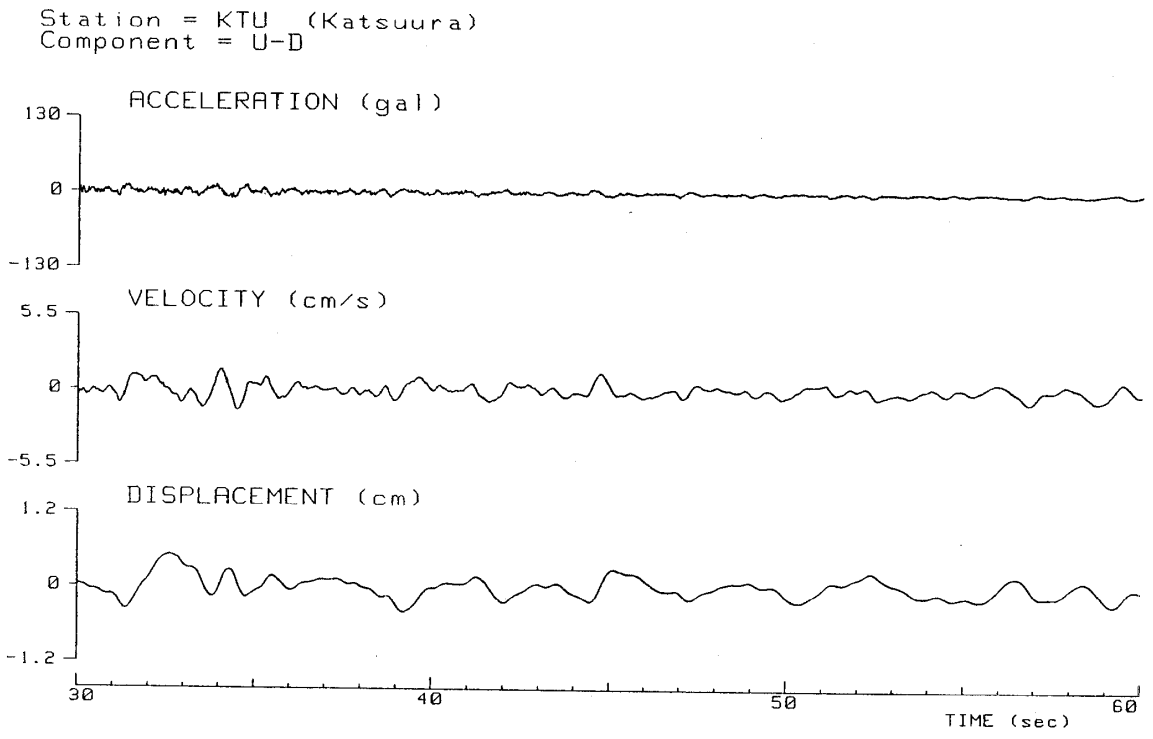
(c)


Station = KTU (Katsuura)
Component = E-W
ACCELERATION (gal)
190
0
-190
VELOCITY (cm/s)
15
0
-15
DISPLACEMENT (cm)
3.7
0
-3.7
90
100
110
120
TIME (sec)

(d)

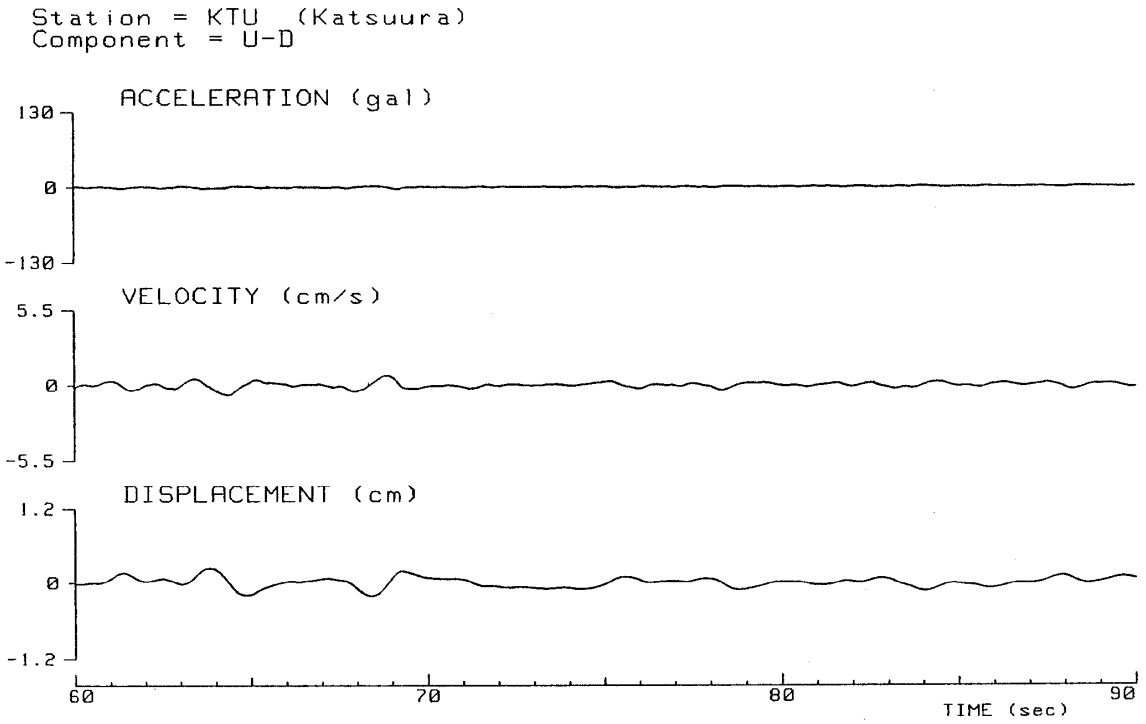


(a)

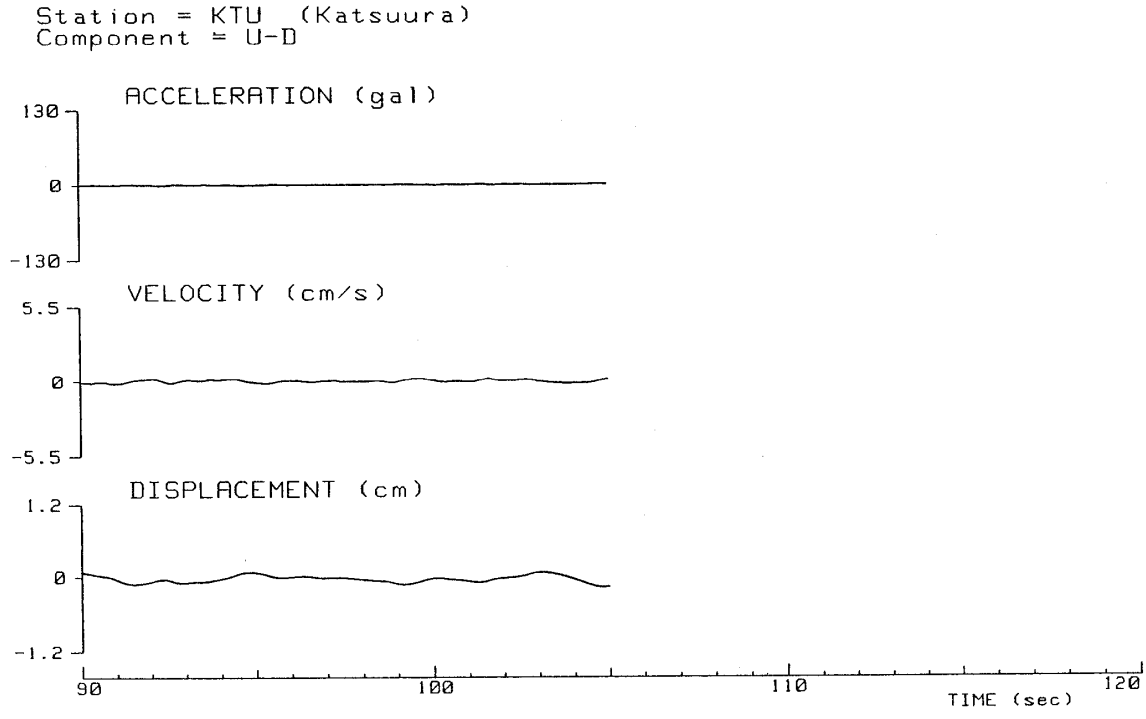


(b)

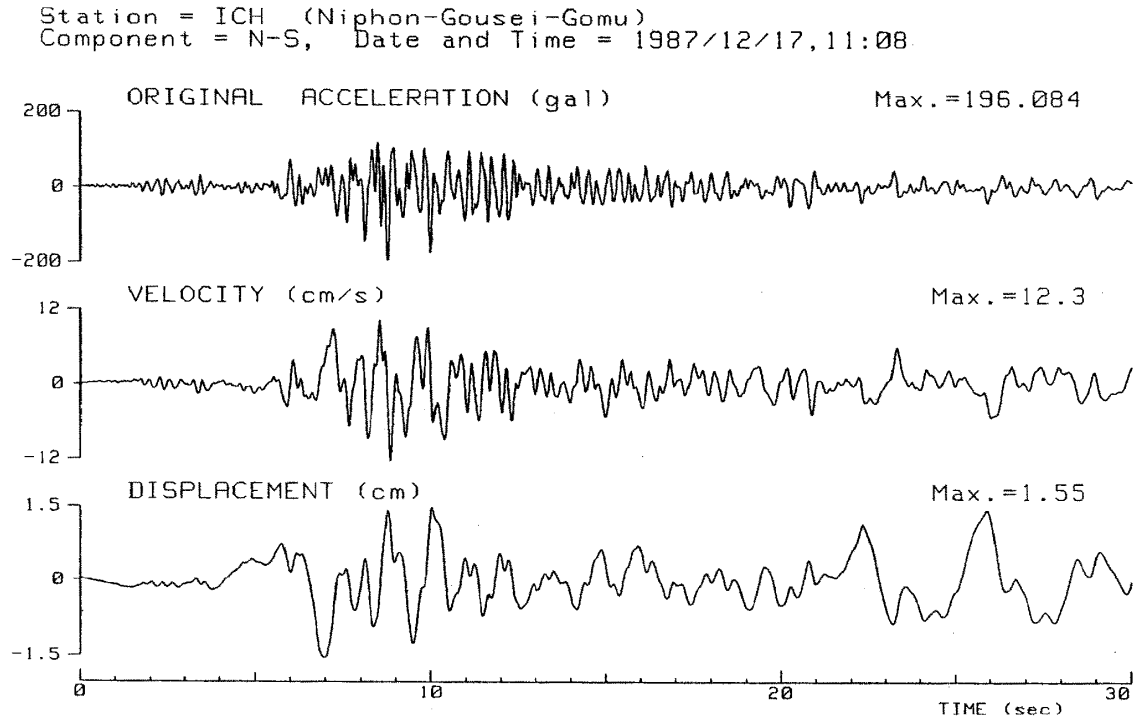
(4−18) KTU, UD-component


Station = KTU (Katsuura)
Component = U-D
ACCELERATION (gal)
130
0
-130
VELOCITY (cm/s)
5.5
0
-5.5
DISPLACEMENT (cm)
1.2
0
-1.2
60
70
80
90
TIME (sec)

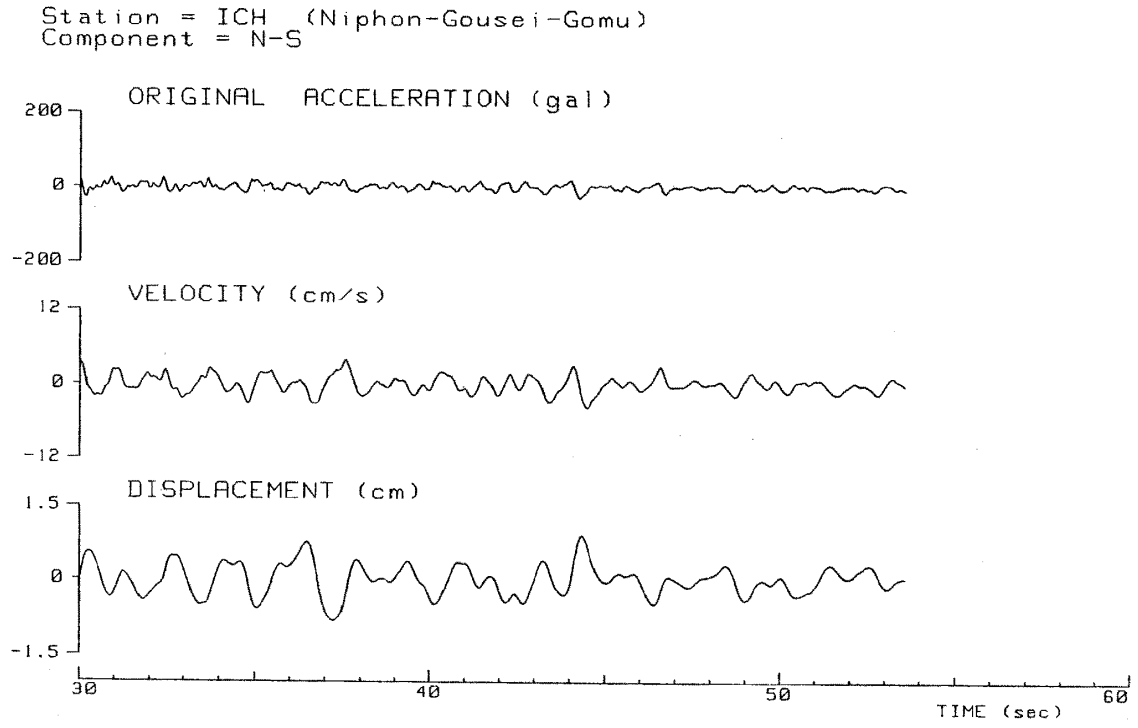
(c)


Station = KTU (Katsuura)
Component = U-D
ACCELERATION (gal)
130
0
-130
VELOCITY (cm/s)
5.5
0
-5.5
DISPLACEMENT (cm)
1.2
0
-1.2
90
100
110
120
TIME (sec)

(d)

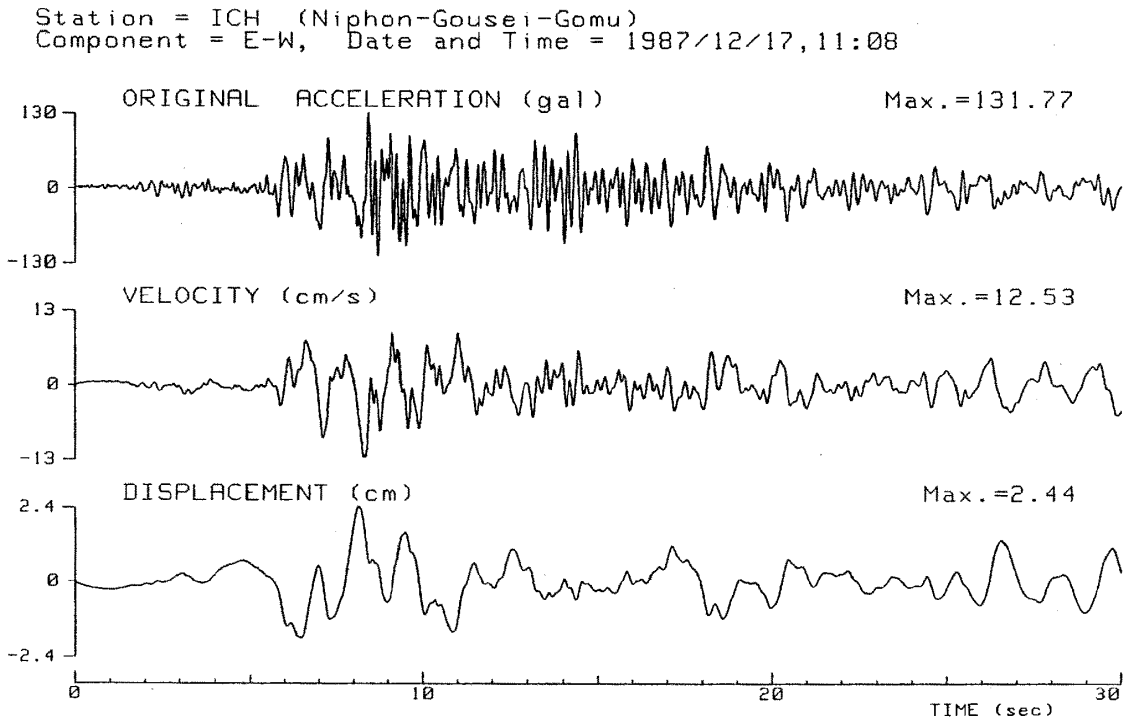


(a)

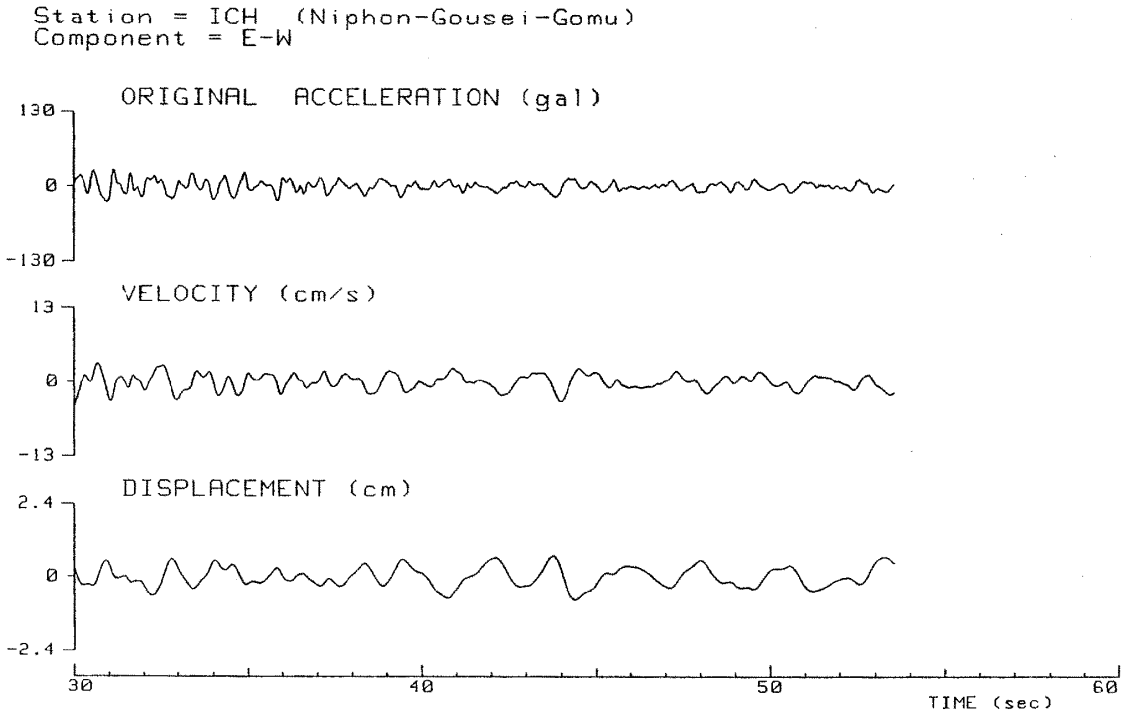


(b)

(4−19) ICH, NS-component

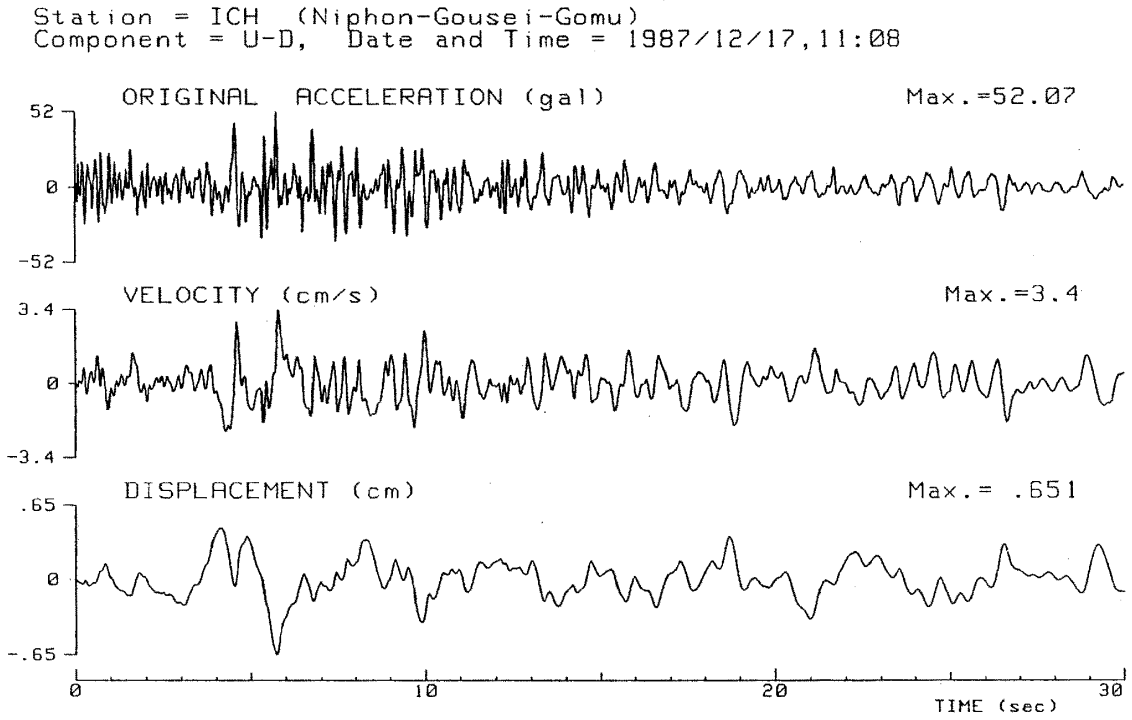


(a)

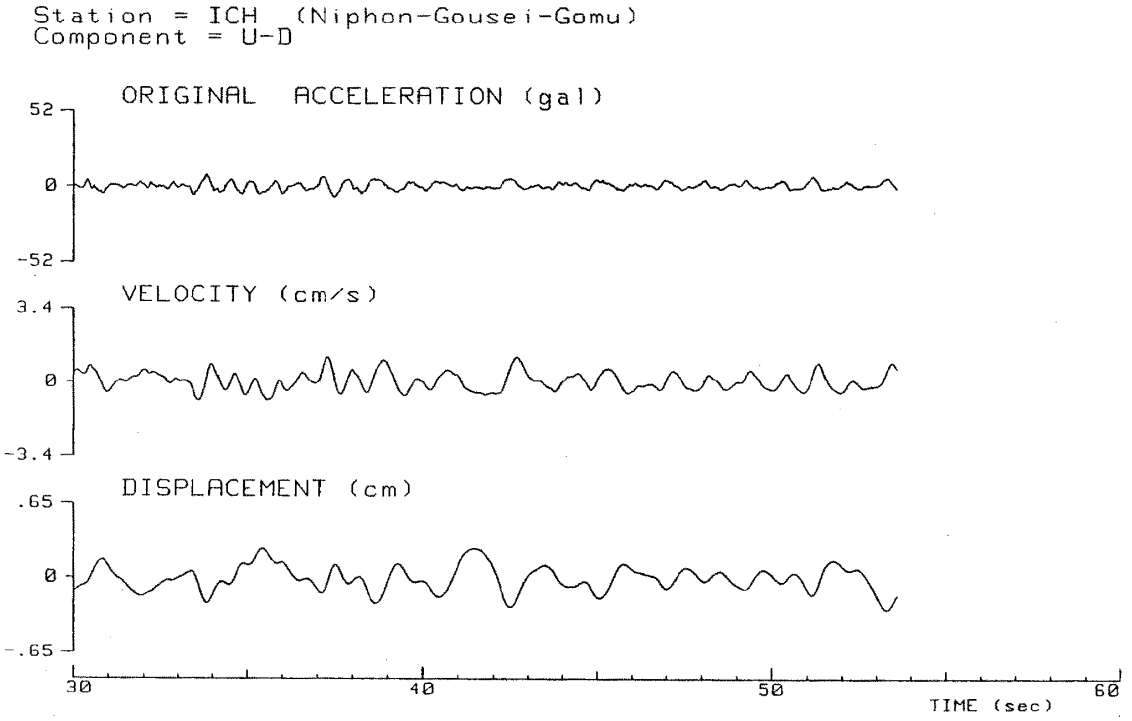


(b)

(4−20) ICH, EW-component



(a)



(b)

(4−21) ICH, UD-component

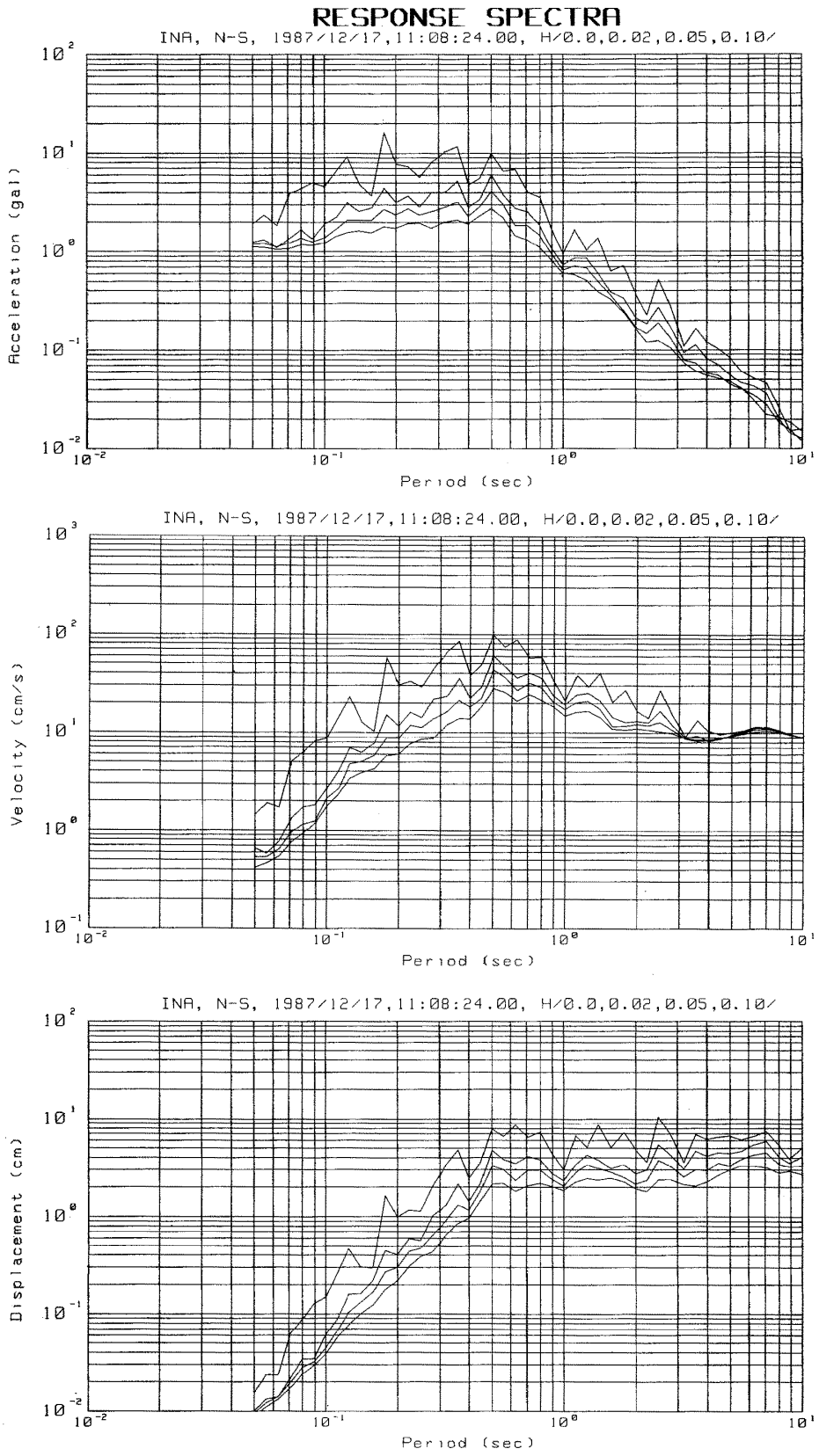
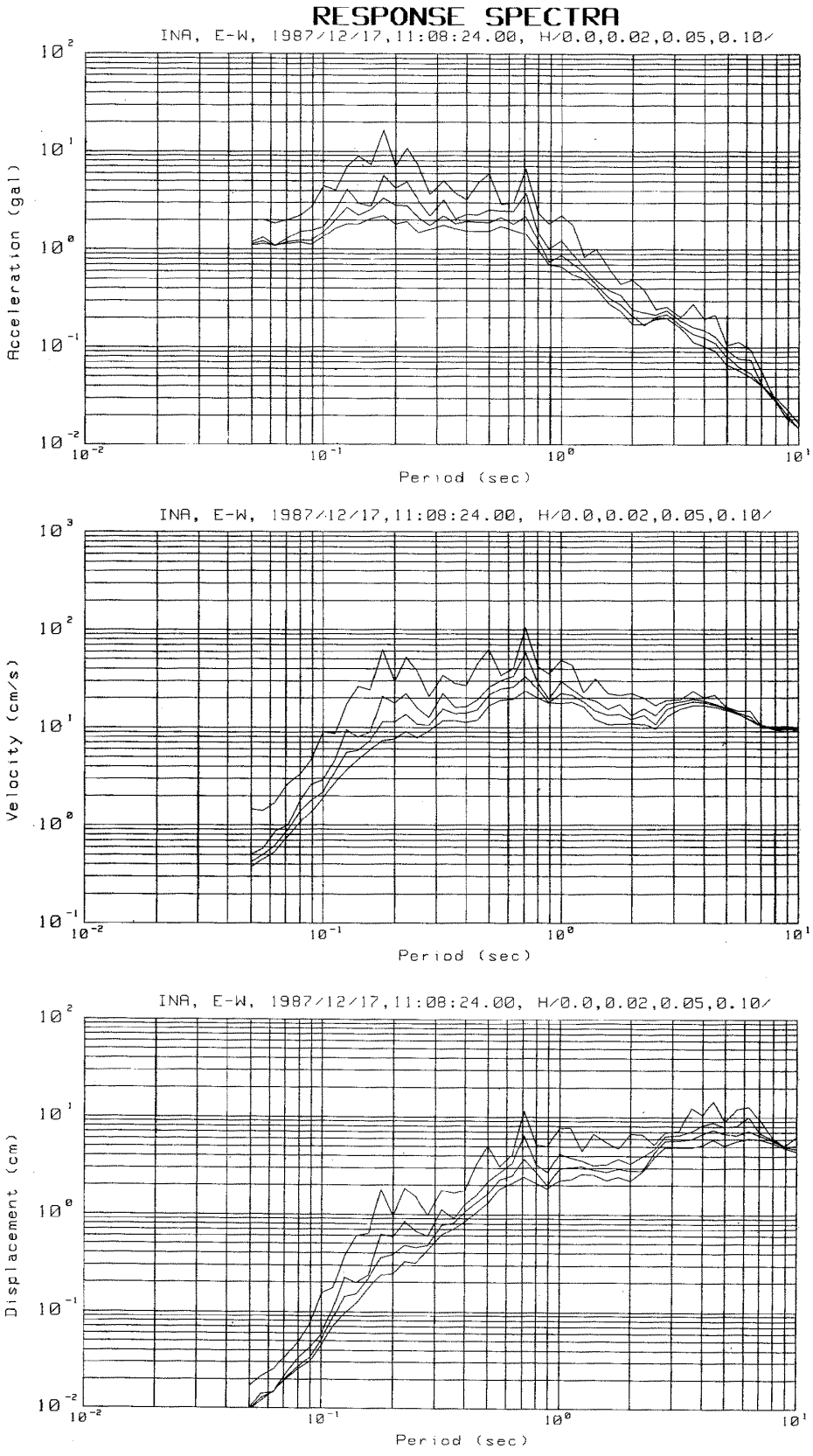
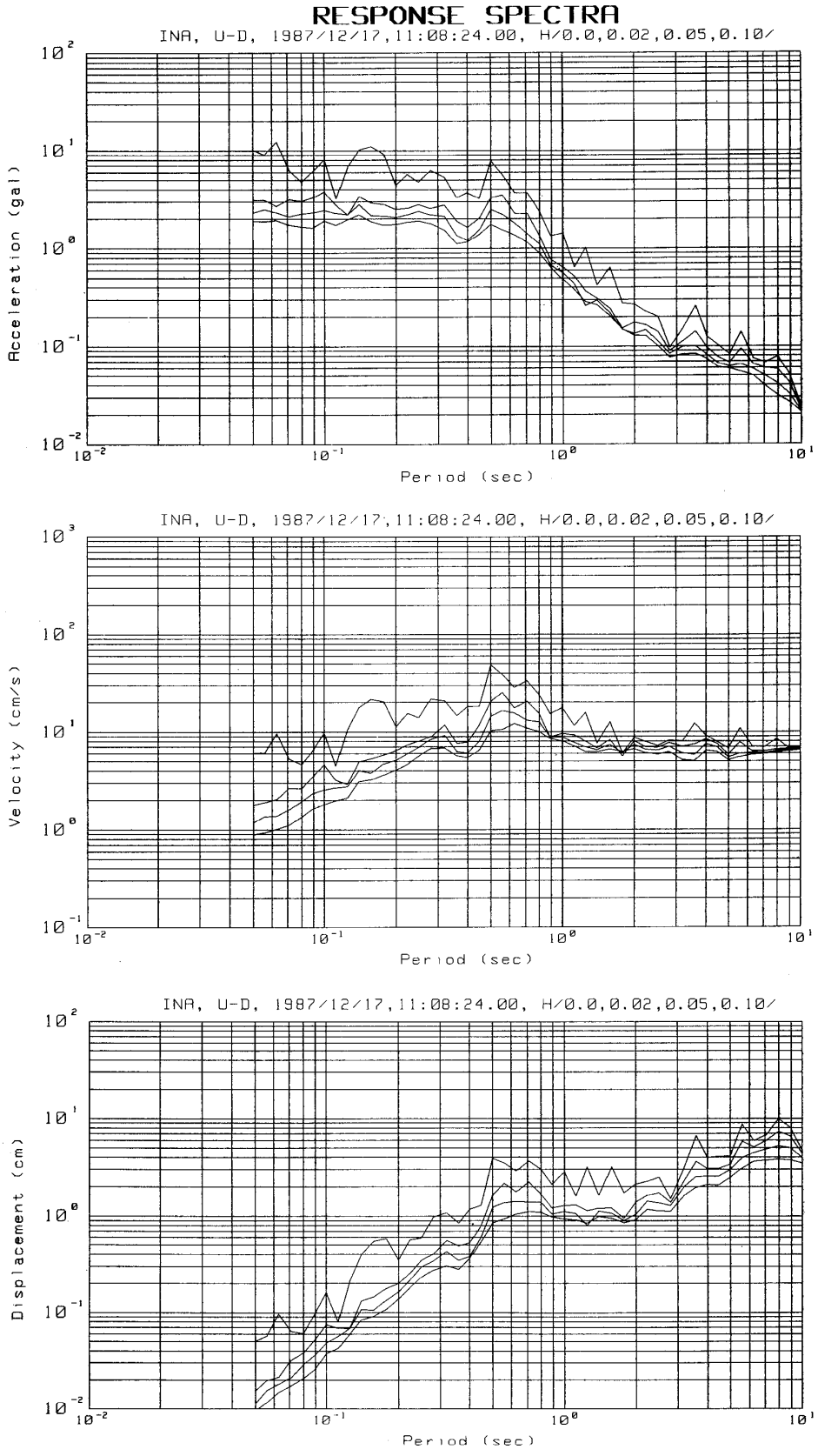


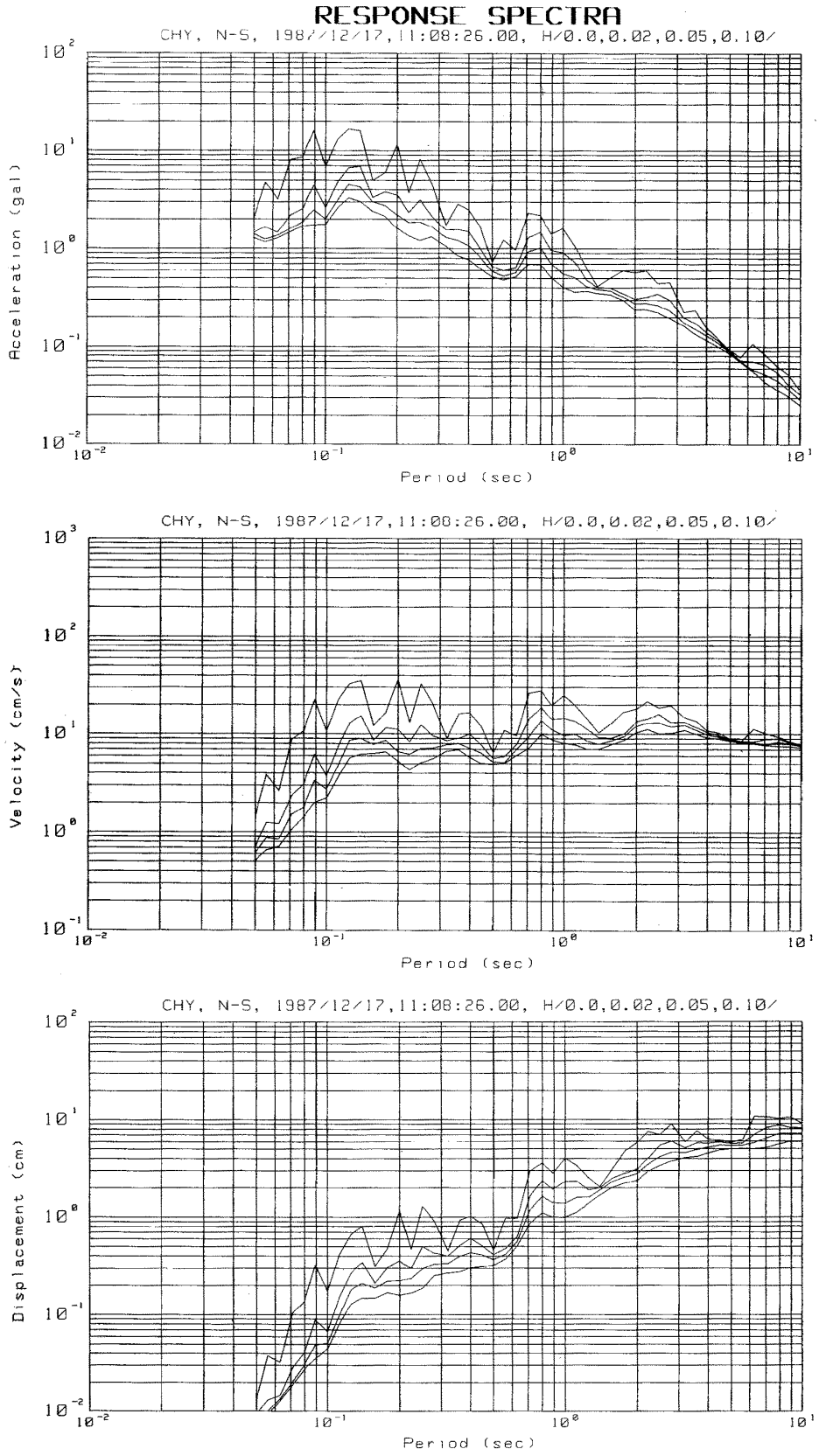
Fig. 5 Response spectra
(5−1) INA, NS-component



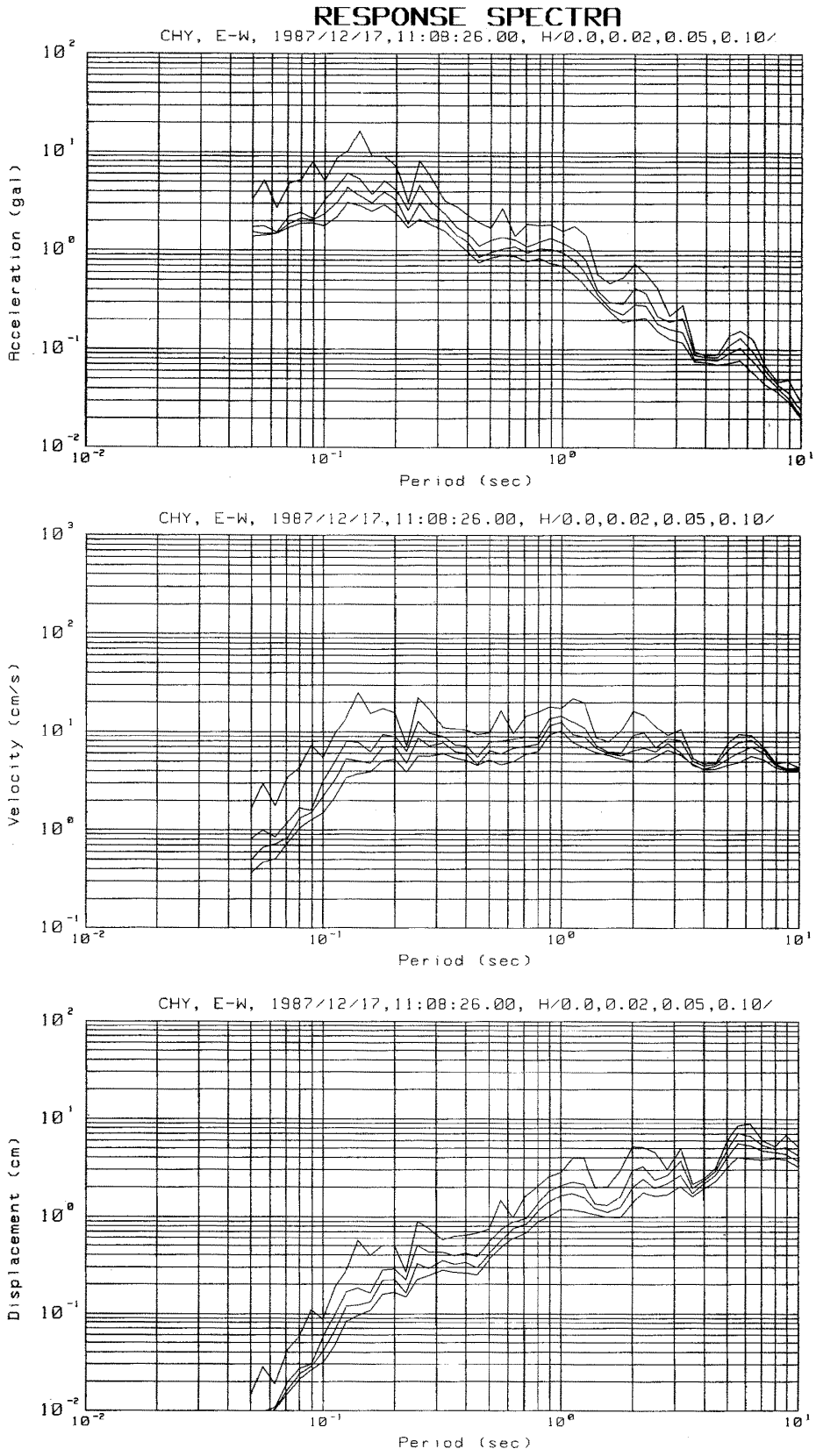
(5－2) INA, EW-component



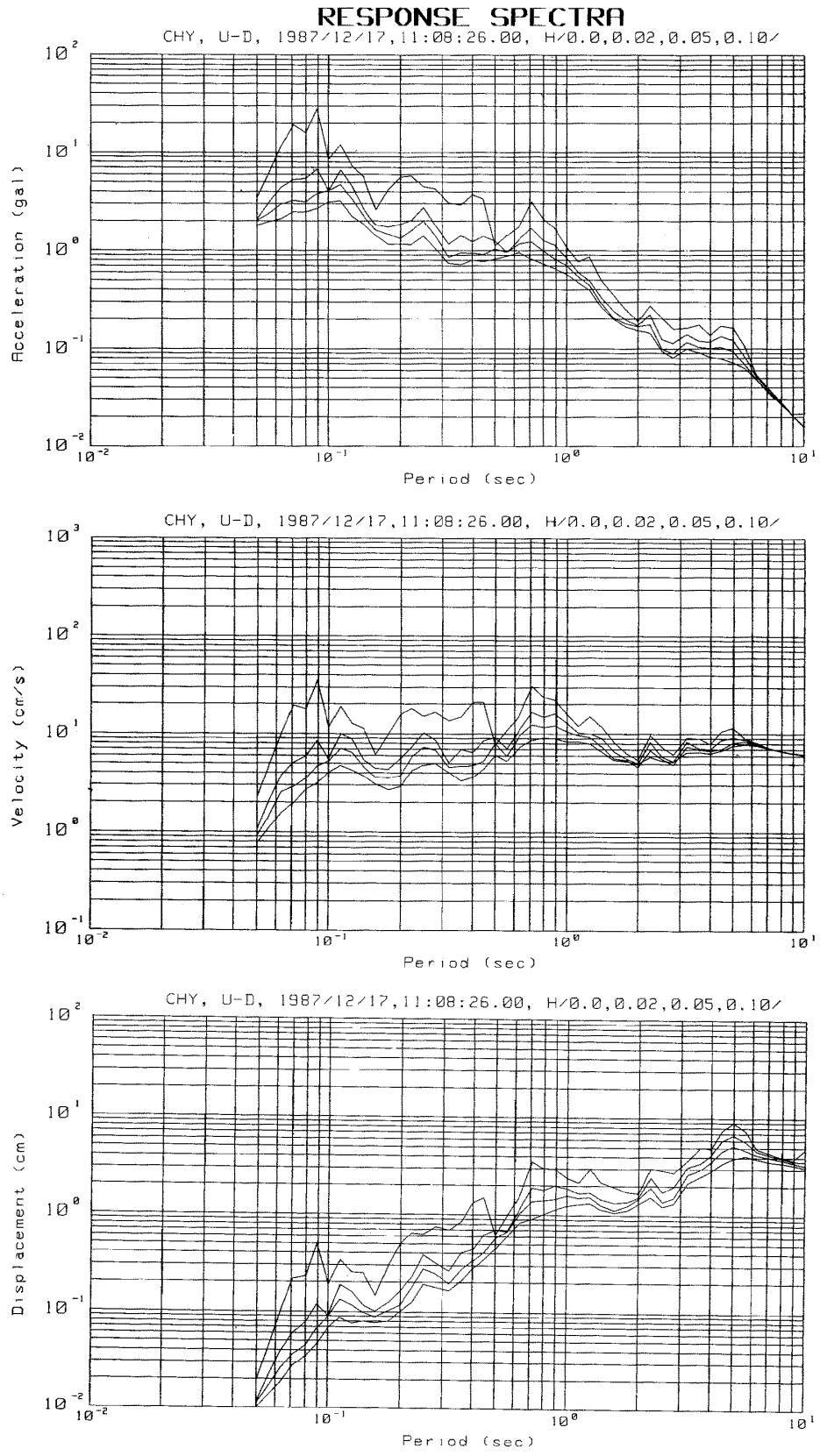
(5−3) INA, UD-component



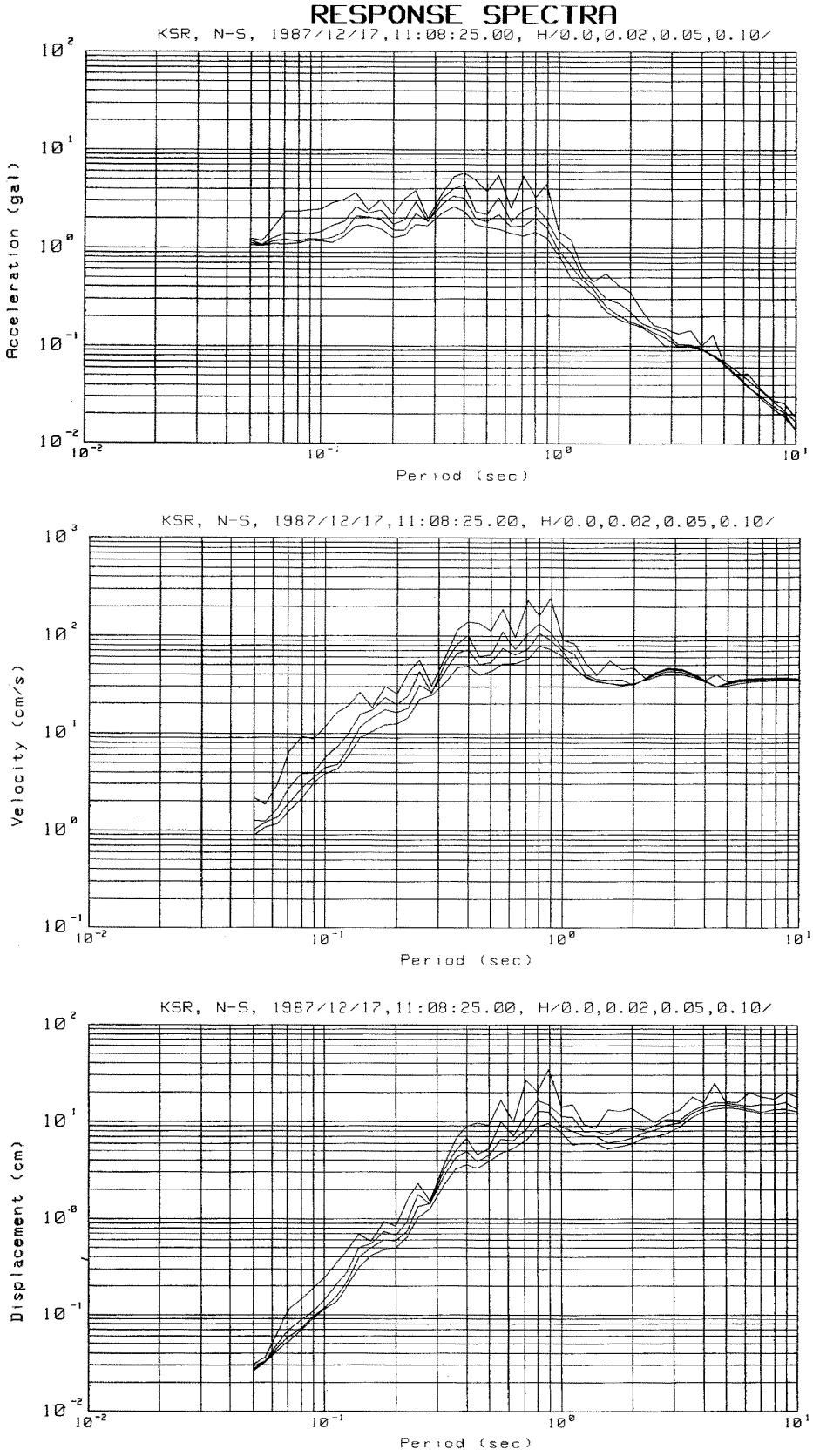
(5－4) CHY, NS-component



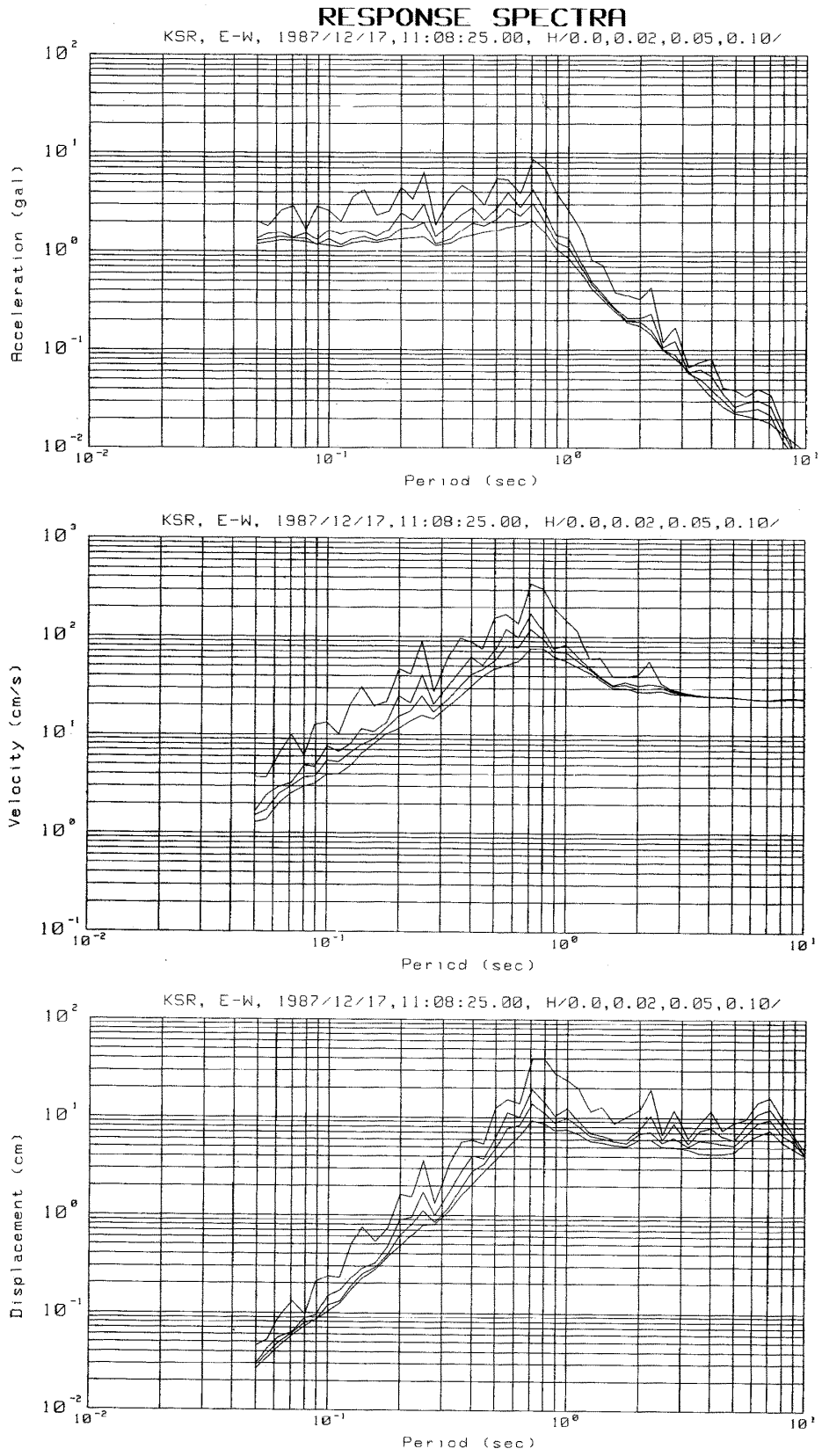
(5−5) CHY, EW-component



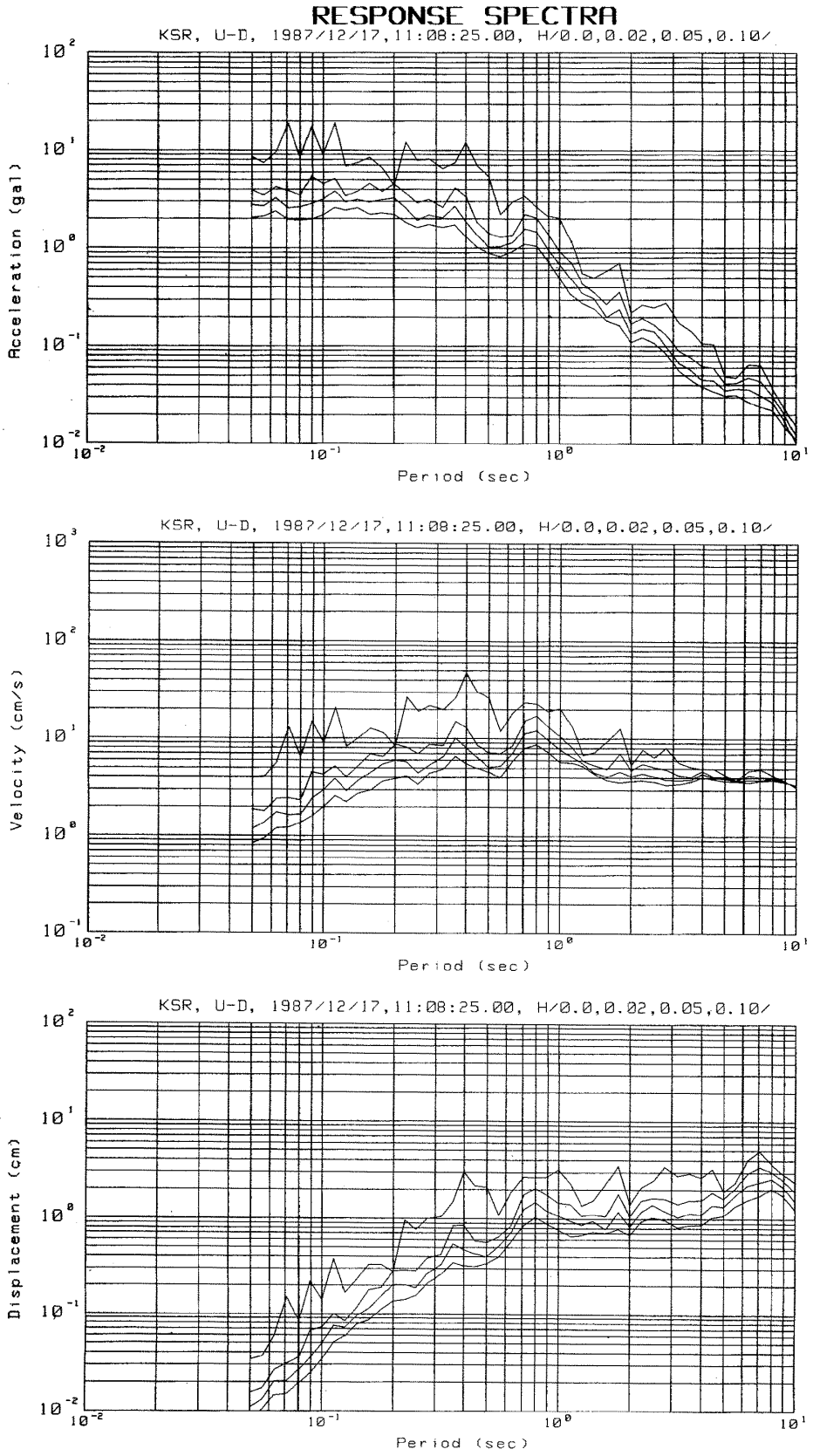
(5－6) CHY, UD-component



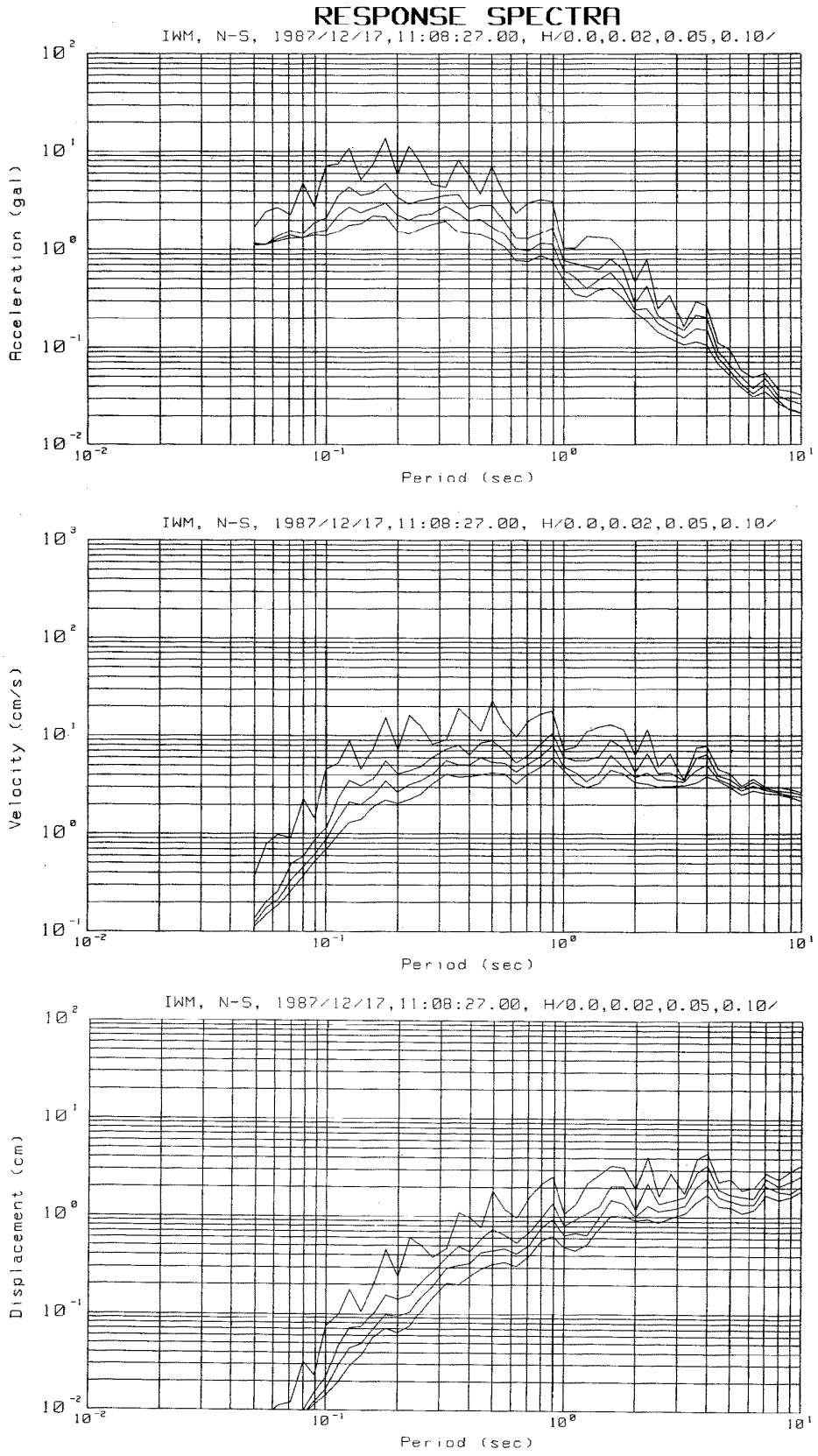
(5－7) KSR, NS-component



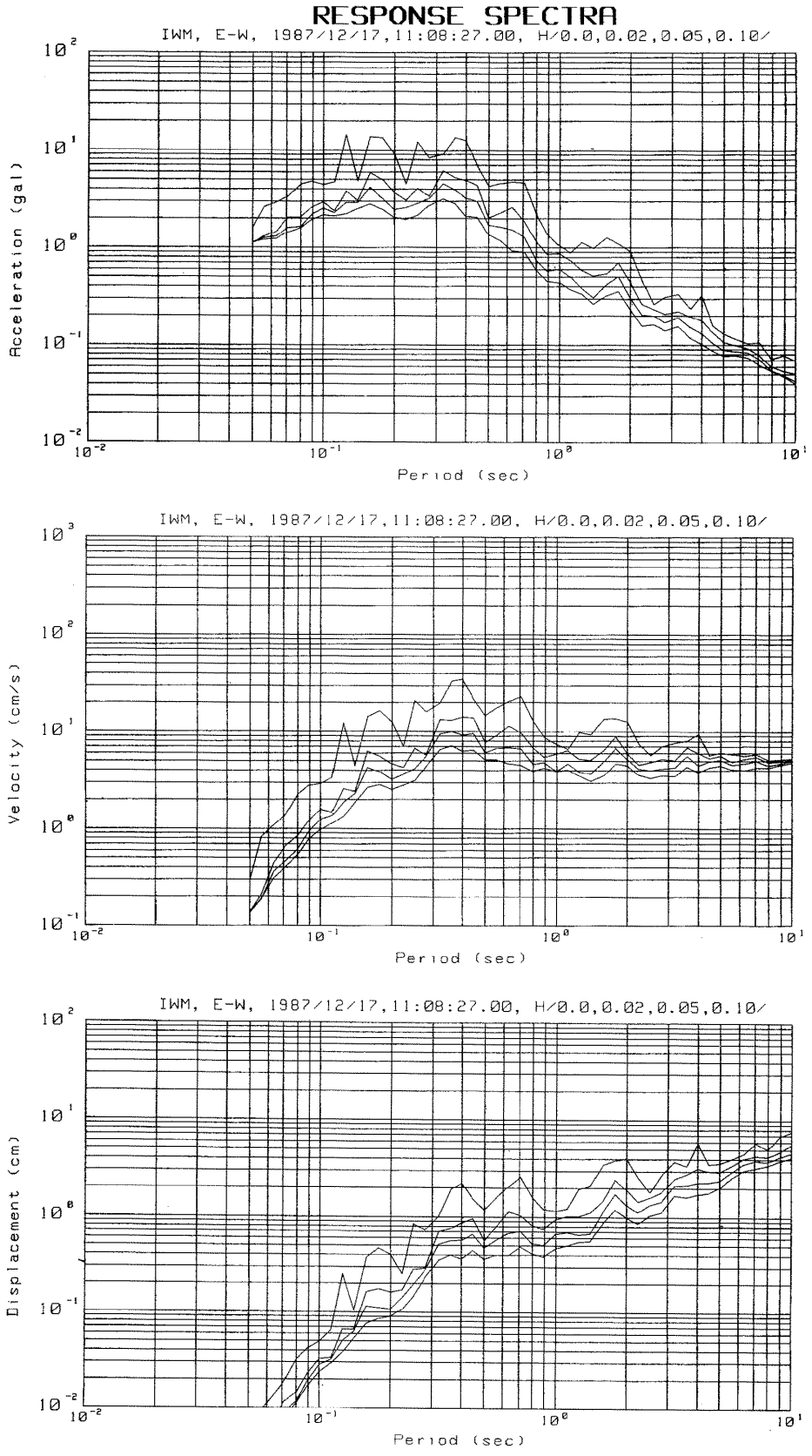
(5－8) KSR, EW-component



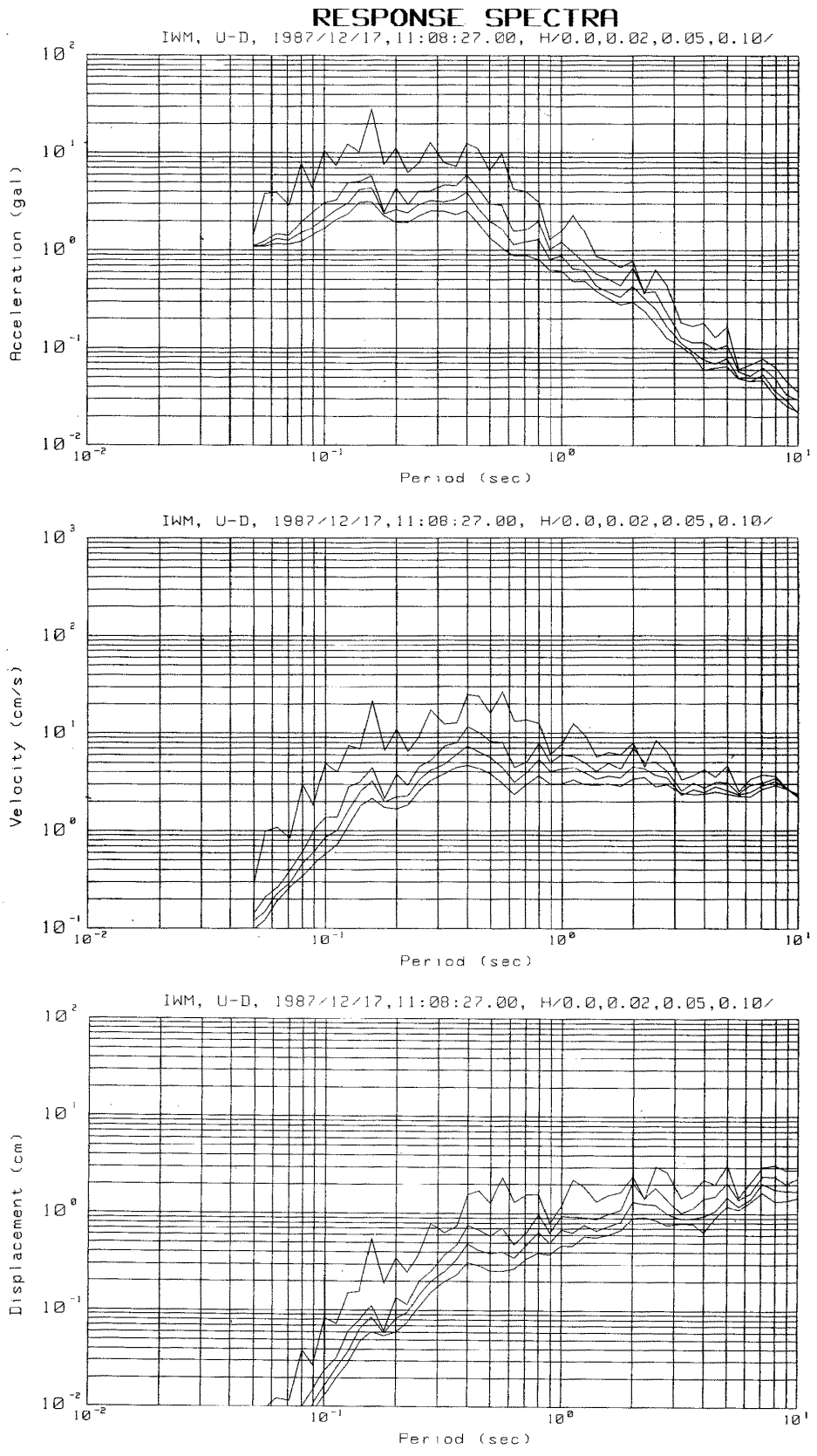
(5−9) KSR, UD-component



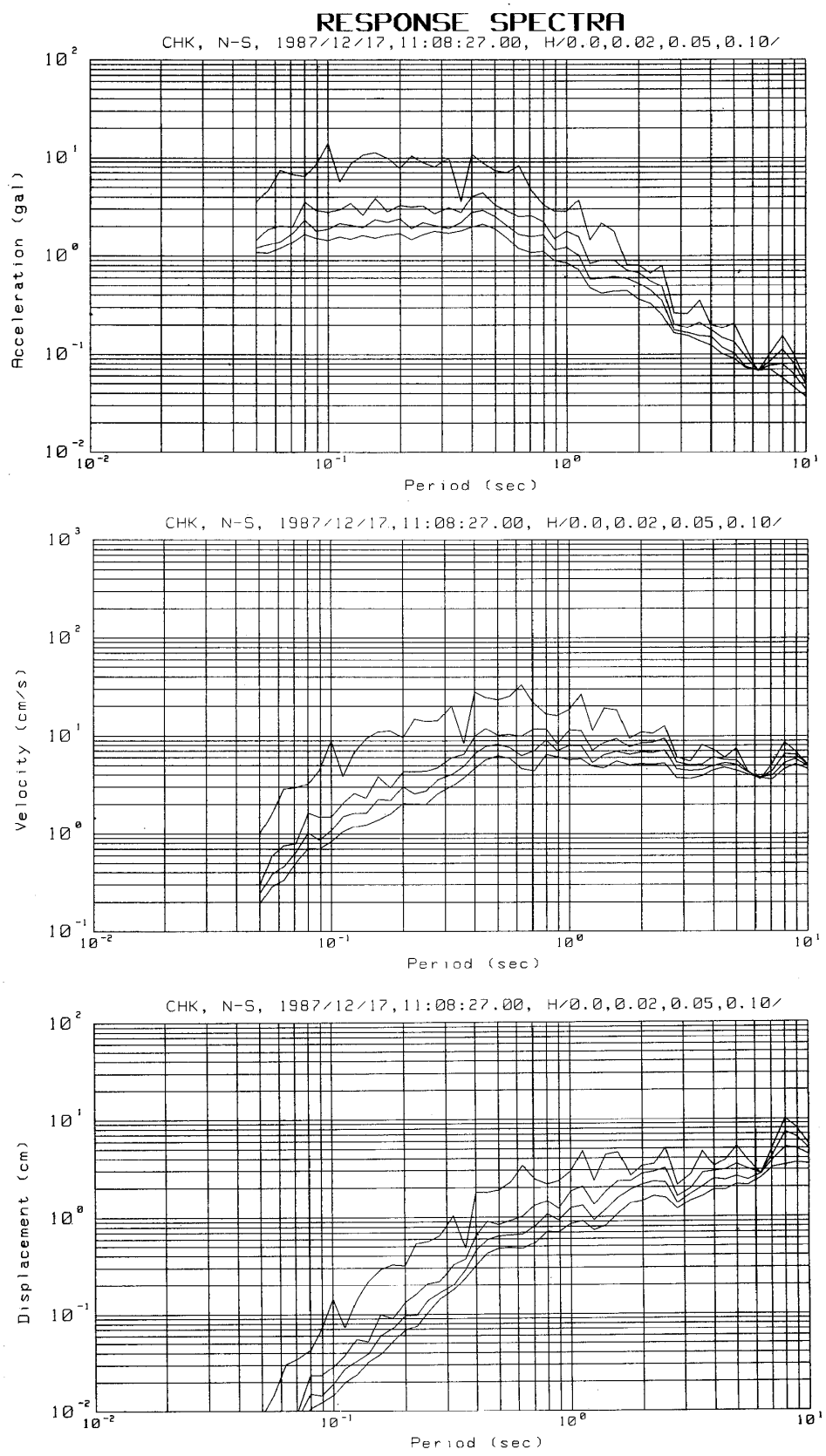
(5-10) IWM, NS-component



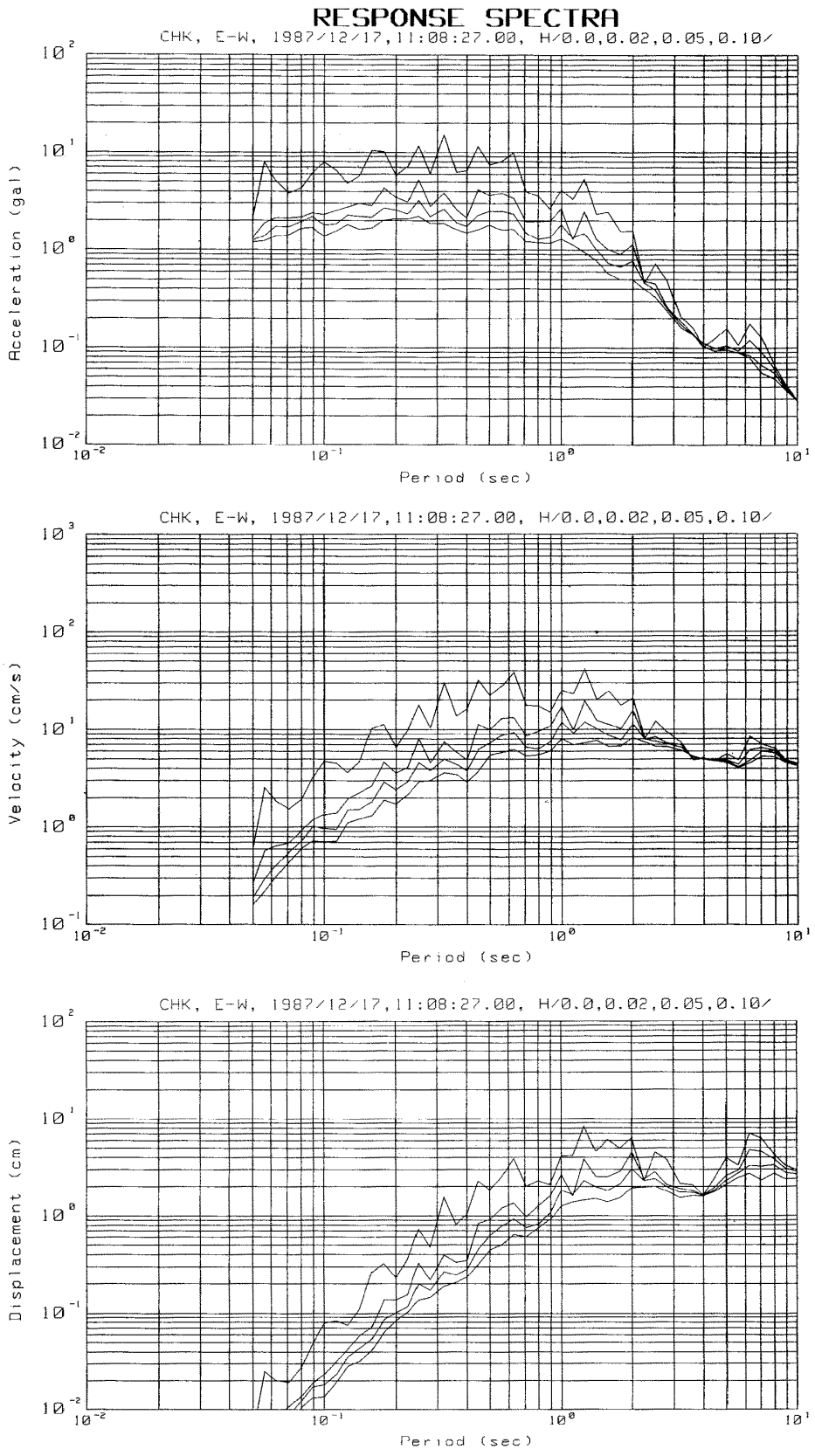
(5−11) IWM, EW-component



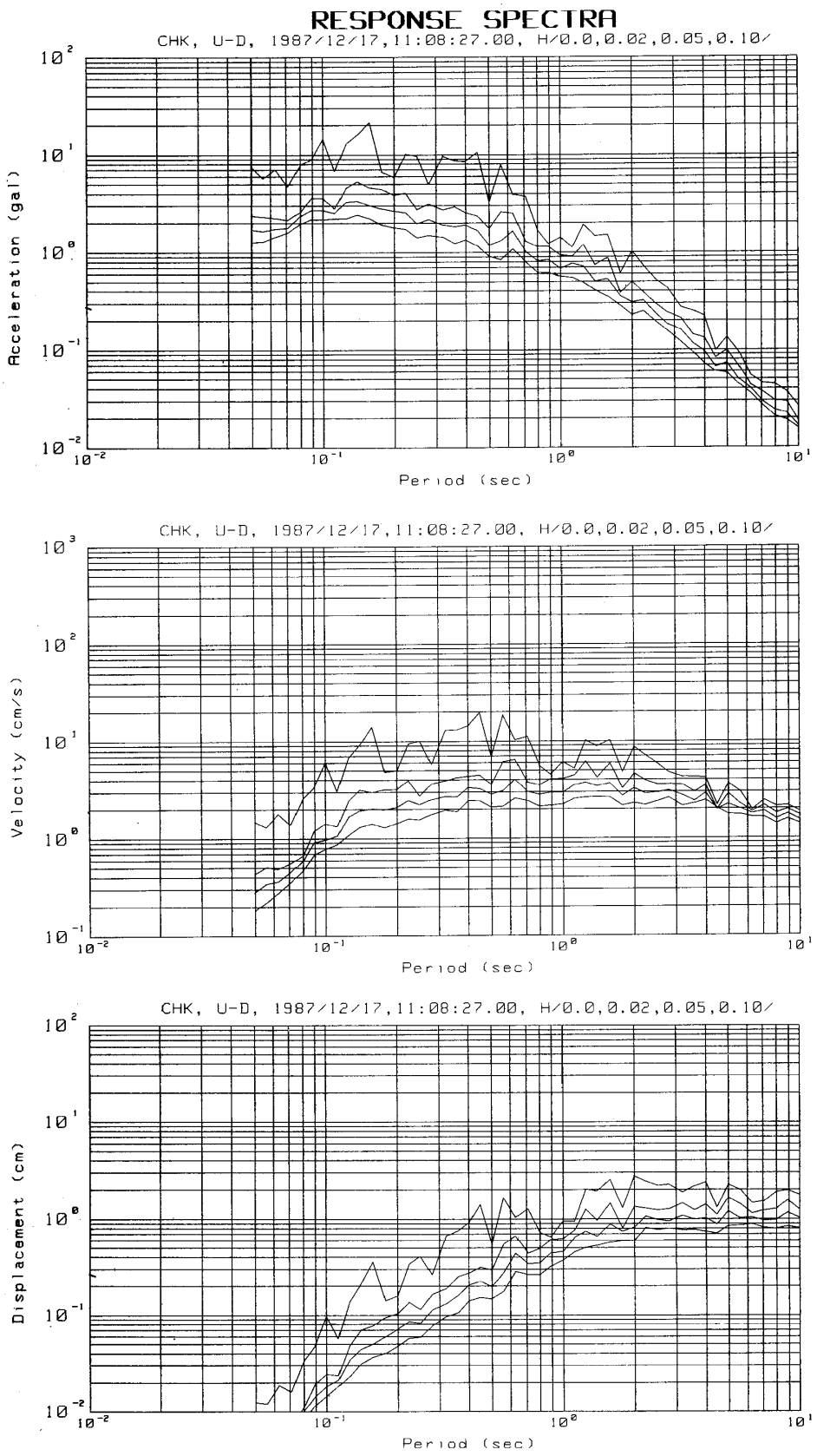
(5−12) IWM, UD-component



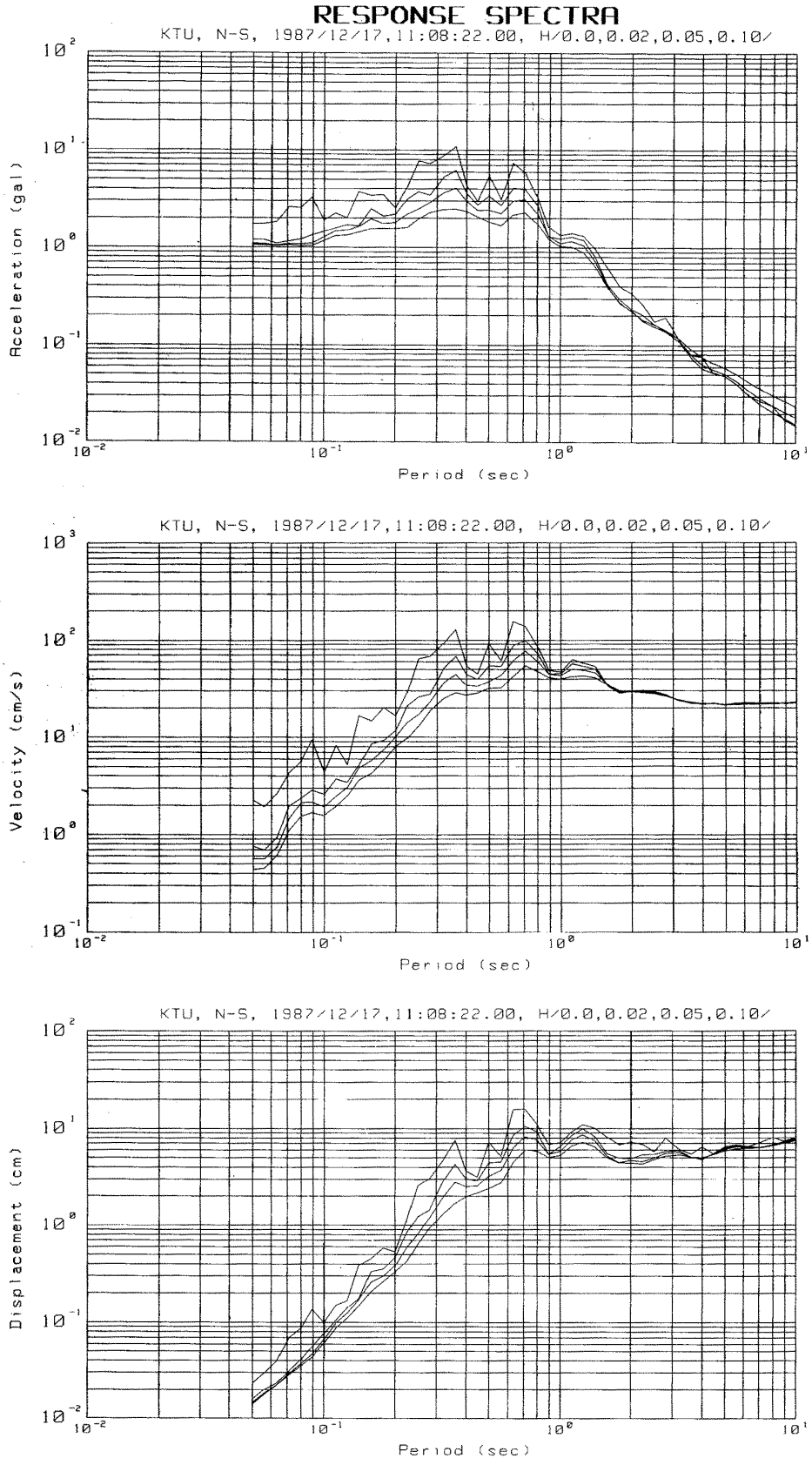
(5−13) CHK, NS-component



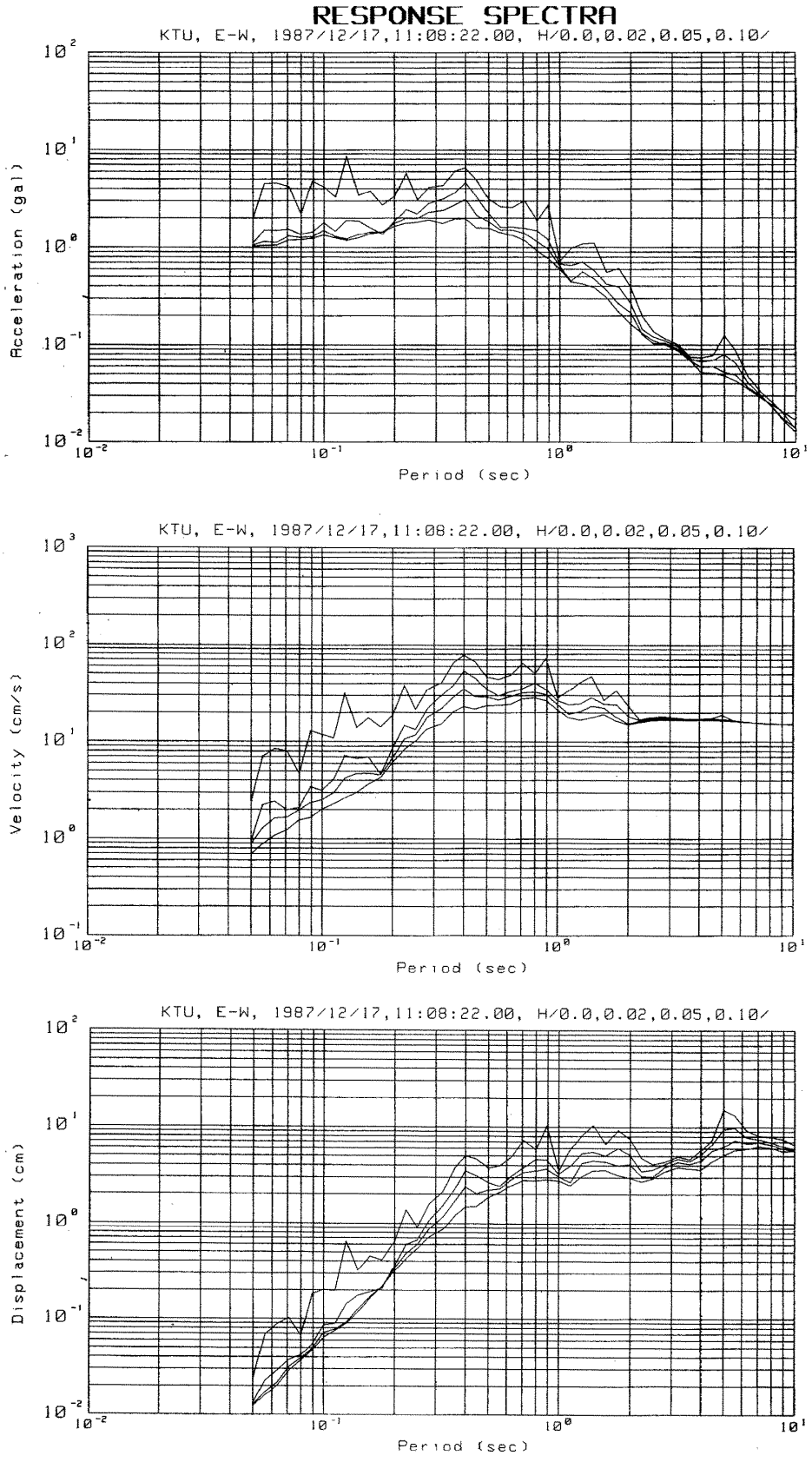
(5−14) CHK, EW-component



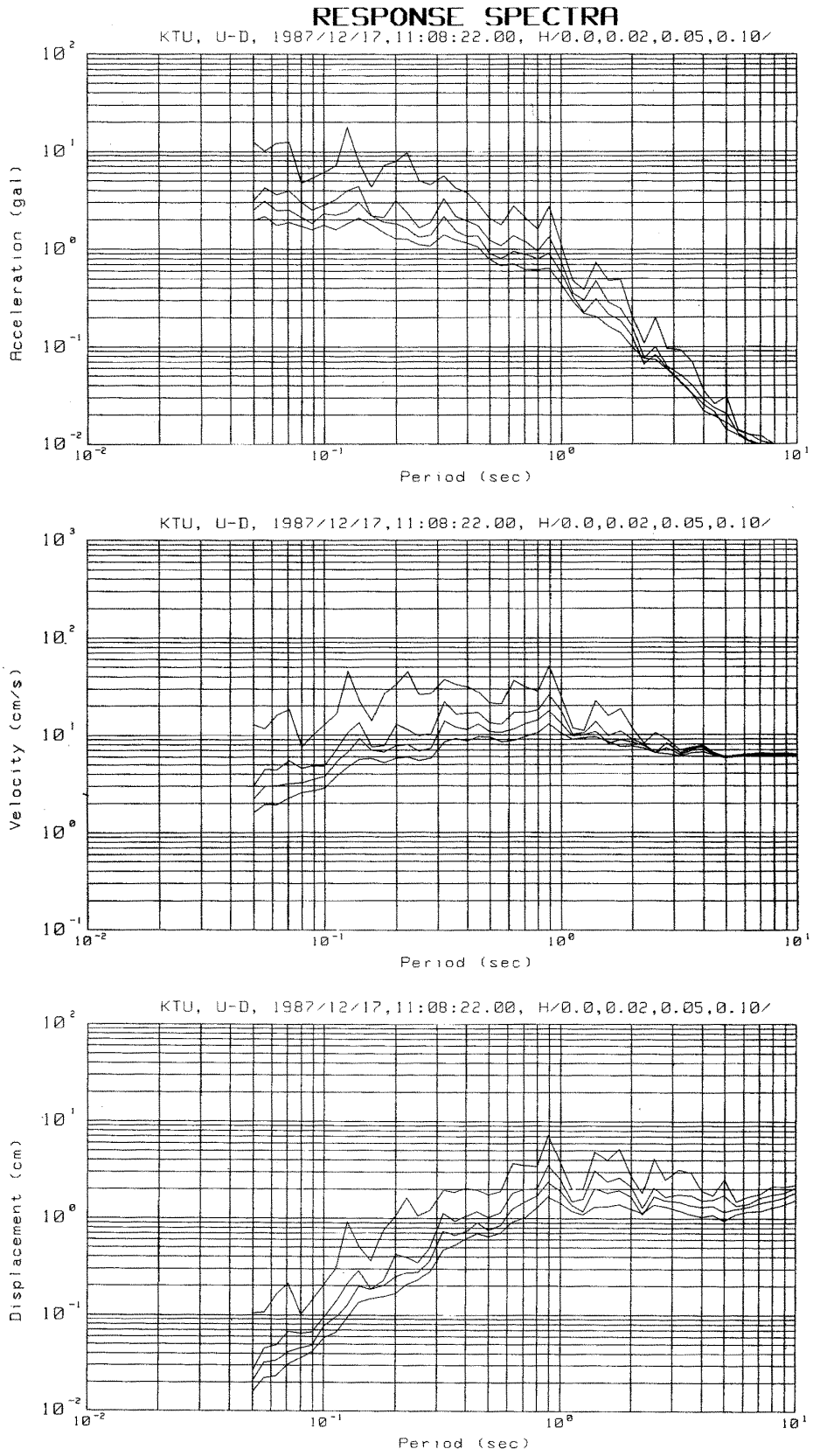
(5−15) CHK, UD-component



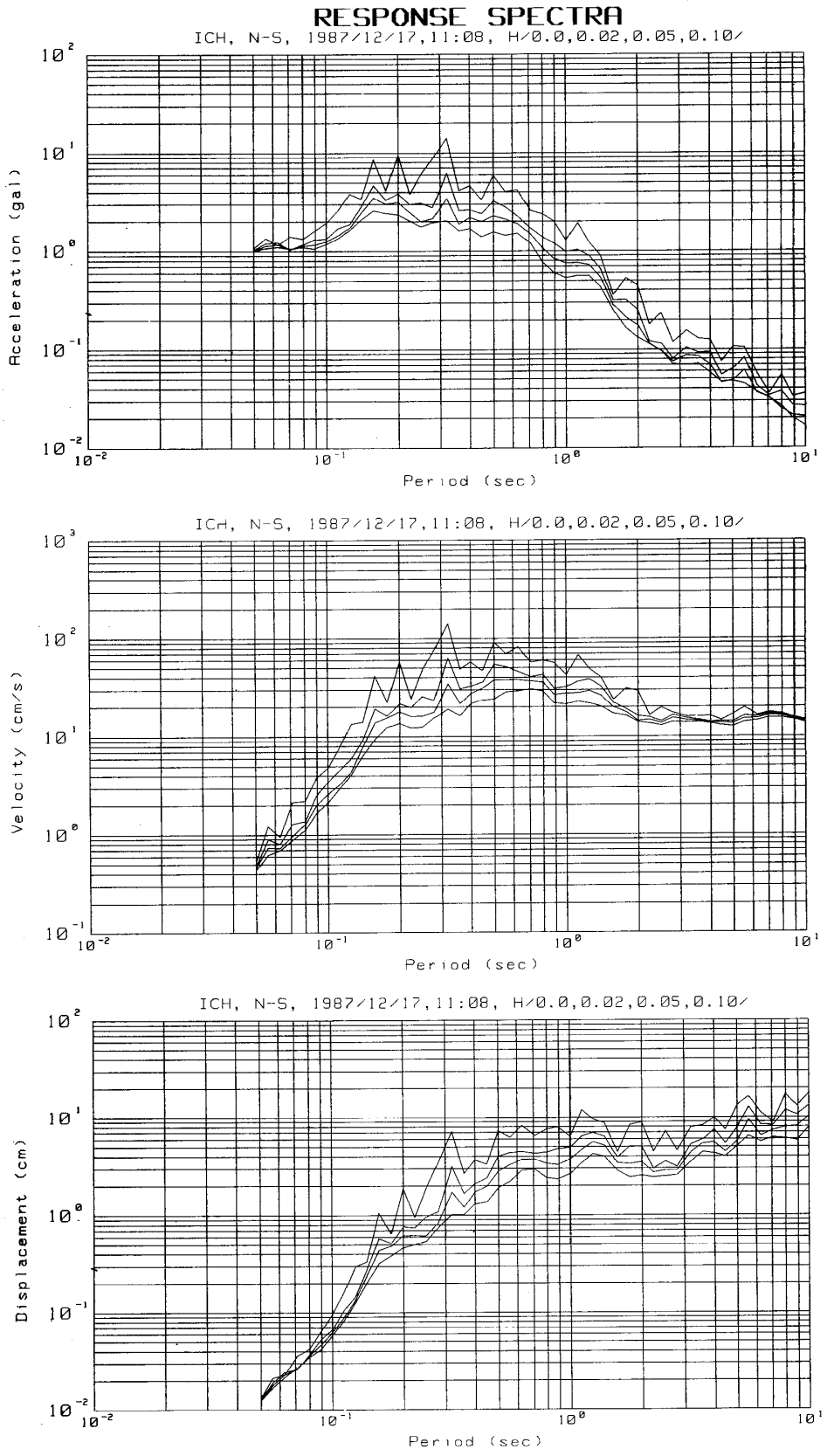
(5−16) KTU, NS-component



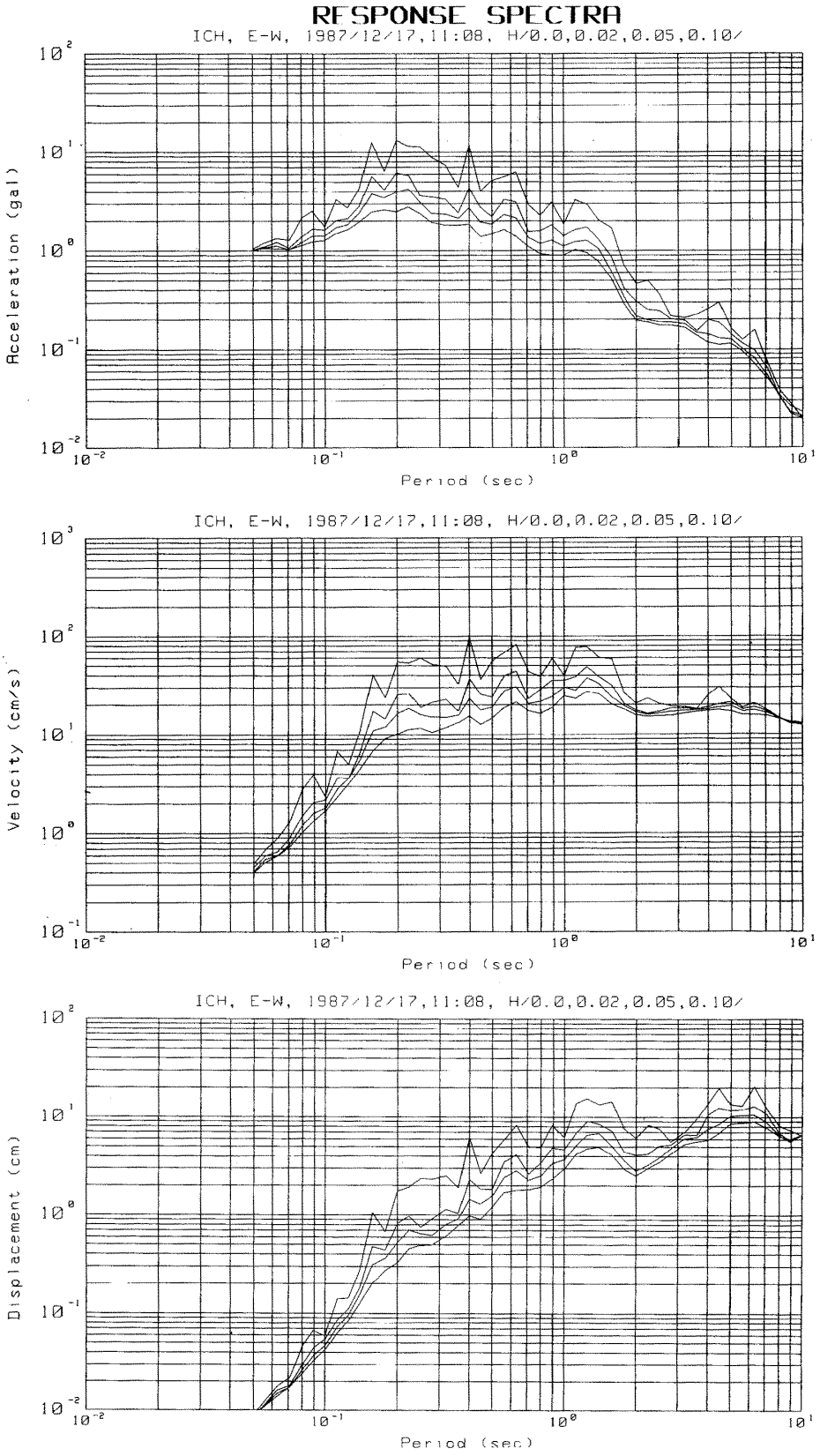
(5−17) KTU, EW-component



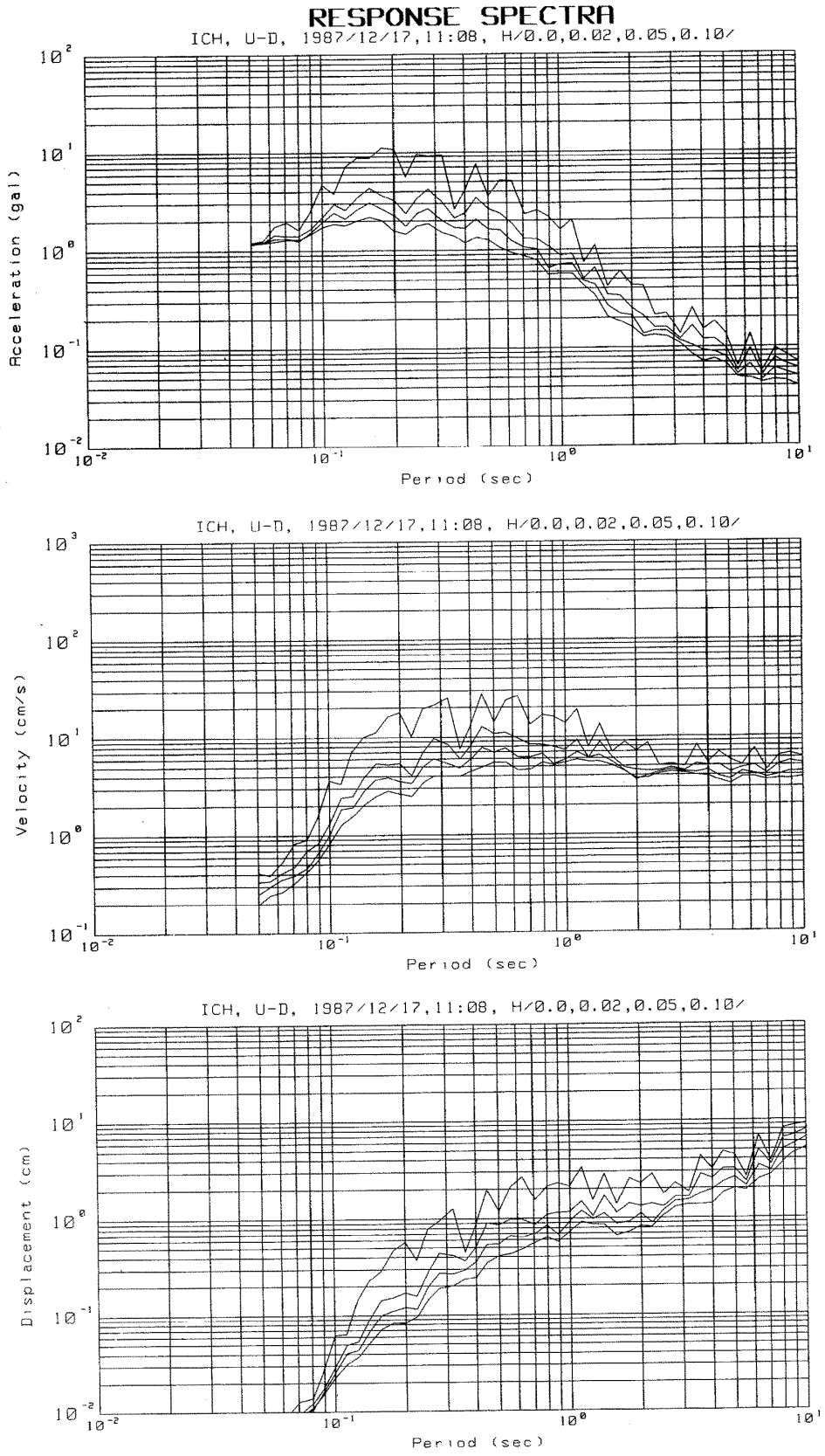
(5－18) KTU, UD-component



(5−19) ICH, NS-component



(5−20) ICH, EW-component



(5−21) ICH, UD-component

Table 2. Lists of response spectra. (2−1) INA, NS-component

RESPONSE SPECTRUM

Station = INA (Inage)
Component = N-S Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:24.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.92	1.45	.02	1.26	.66	.01	1.19	.53	.01	1.13	.42	.01
.056	2.36	1.90	.02	1.33	.58	.01	1.21	.53	.01	1.11	.46	.01
.063	1.85	1.72	.02	1.10	.77	.01	1.12	.64	.01	1.05	.54	.01
.071	3.90	5.02	.06	1.36	1.34	.02	1.23	.96	.02	1.08	.75	.02
.080	4.34	6.27	.09	1.69	1.73	.03	1.39	1.16	.03	1.17	.94	.02
.089	5.01	8.23	.13	1.37	1.81	.03	1.28	1.25	.03	1.16	1.18	.03
.100	4.60	8.71	.15	1.91	2.67	.06	1.39	2.12	.04	1.22	1.77	.04
.112	6.57	14.36	.26	2.23	4.03	.09	1.70	2.64	.07	1.44	2.34	.06
.125	9.31	23.20	.46	3.17	6.91	.16	2.10	4.77	.10	1.57	3.38	.08
.140	4.85	12.81	.30	2.57	6.23	.16	2.09	5.03	.13	1.63	3.89	.10
.158	3.73	10.32	.30	2.78	7.75	.22	2.09	5.78	.17	1.57	4.26	.12
.178	16.37	58.26	1.65	4.42	15.16	.45	2.69	8.88	.27	1.80	5.80	.18
.200	7.74	30.37	.99	3.17	11.74	.40	2.36	8.82	.30	1.75	5.98	.22
.224	7.31	33.02	1.17	3.72	16.09	.59	2.75	11.86	.44	1.95	7.69	.31
.250	5.72	28.89	1.14	2.85	14.22	.57	2.37	11.29	.47	1.97	8.57	.38
.280	8.00	43.80	2.00	4.02	21.94	1.00	2.56	13.70	.64	1.75	8.75	.43
.320	10.35	66.26	3.38	4.02	23.33	1.31	2.85	16.31	.93	2.03	12.01	.65
.360	11.65	84.24	4.81	5.22	35.45	2.16	3.21	21.44	1.32	2.11	13.88	.86
.400	4.77	37.96	2.43	2.82	22.49	1.44	2.31	18.10	1.17	1.92	13.81	.97
.447	5.55	48.59	3.53	3.41	29.20	2.17	2.86	22.45	1.81	2.31	18.38	1.45
.500	10.05	100.43	8.01	6.01	61.20	4.79	4.16	43.69	3.30	2.75	28.16	2.15
.560	6.58	74.18	6.58	3.84	46.89	3.83	3.03	36.44	3.01	2.23	25.93	2.18
.630	6.87	87.32	8.69	2.77	35.94	3.50	1.86	26.84	2.35	1.48	21.07	1.82
.710	4.05	57.75	6.51	2.57	40.22	4.12	1.87	31.65	2.98	1.33	24.24	2.07
.800	3.59	58.29	7.32	1.87	35.38	3.81	1.47	28.52	2.98	1.10	21.36	2.19
.890	1.79	34.53	4.52	1.11	24.15	2.79	.97	20.80	2.43	.83	18.41	2.04
1.000	.95	21.21	3.02	.74	19.32	2.34	.65	17.16	2.05	.60	14.80	1.86
1.120	1.68	38.21	6.73	.86	24.45	3.43	.71	20.48	2.83	.58	16.19	2.26
1.250	1.02	29.07	5.09	.86	25.26	4.27	.68	21.06	3.38	.51	16.57	2.46
1.400	1.40	40.24	8.74	.61	21.35	3.78	.50	17.49	3.12	.39	14.46	2.36
1.580	.63	20.56	5.05	.39	14.33	3.09	.36	11.63	2.84	.33	10.91	2.47
1.780	.72	26.99	7.26	.34	12.79	3.40	.25	11.77	2.51	.24	10.73	2.27
2.000	.38	16.44	4.85	.21	13.07	2.74	.17	12.16	2.15	.17	11.02	1.93
2.240	.23	14.08	3.61	.19	12.71	2.98	.15	11.88	2.34	.12	10.77	1.82
2.500	.53	26.96	10.51	.27	16.68	5.45	.19	12.74	3.76	.13	10.32	2.39
2.800	.28	15.38	7.00	.17	12.01	4.30	.13	10.72	3.29	.11	9.88	2.40
3.200	.11	9.10	3.56	.09	8.88	3.06	.08	8.68	2.55	.07	8.80	2.13
3.600	.17	13.40	6.91	.11	9.31	4.66	.07	8.25	3.00	.06	8.48	2.05
4.000	.12	10.44	6.15	.08	8.28	4.17	.06	8.38	2.97	.06	8.53	2.26
4.470	.10	9.69	6.51	.07	8.68	4.49	.06	8.75	3.49	.05	8.82	2.66
5.000	.08	10.14	6.67	.06	9.55	4.42	.05	9.45	3.31	.05	9.31	3.00
5.600	.06	10.58	6.11	.05	10.36	4.63	.04	10.09	3.83	.04	9.77	3.32
6.300	.05	11.55	6.56	.04	11.25	5.42	.04	10.86	4.27	.03	10.32	3.31
7.100	.05	11.46	7.42	.04	11.23	5.83	.03	10.91	4.48	.02	10.44	3.17
8.000	.03	10.63	5.36	.02	10.52	4.09	.02	10.36	3.42	.02	10.10	2.79
8.900	.02	9.70	3.87	.01	9.70	3.52	.02	9.67	3.27	.02	9.60	2.91
10.000	.02	9.01	5.06	.01	8.92	4.07	.01	8.98	3.31	.02	9.05	2.71

END

(2−2) INA, EW-component

RESPONSE SPECTRUM

Station = INA (Inage)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:24.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	2.00	1.47	.02	1.18	.50	.01	1.13	.42	.01	1.10	.37	.01
.056	2.00	1.43	.02	1.33	.58	.01	1.20	.50	.01	1.13	.45	.01
.063	1.86	1.70	.03	1.08	.85	.01	1.08	.62	.01	1.10	.53	.01
.071	2.01	2.63	.03	1.30	.99	.02	1.19	.88	.02	1.14	.76	.02
.080	2.24	3.35	.05	1.53	1.79	.03	1.23	1.40	.03	1.18	1.08	.03
.089	2.71	4.75	.07	1.57	2.63	.04	1.23	1.80	.03	1.12	1.37	.03
.100	4.50	8.97	.15	1.71	2.91	.06	1.50	2.19	.05	1.34	1.91	.05
.112	4.07	8.68	.17	2.52	4.71	.11	2.01	3.56	.09	1.65	2.74	.07
.125	6.98	17.27	.37	4.17	9.46	.22	2.69	5.56	.14	1.83	3.68	.10
.140	8.90	26.50	.60	2.96	7.88	.20	2.26	5.79	.15	1.84	4.69	.12
.158	7.36	24.56	.63	2.78	9.01	.24	2.57	7.31	.22	2.08	5.89	.17
.178	16.65	62.34	1.80	5.72	20.77	.62	3.34	11.58	.36	2.22	7.31	.24
.200	7.06	29.65	.96	4.26	17.82	.58	2.82	11.51	.38	1.84	7.53	.25
.224	10.82	52.15	1.85	4.92	22.13	.84	2.80	13.74	.48	1.94	9.12	.33
.250	7.06	37.69	1.51	3.13	15.93	.67	2.13	10.95	.45	1.50	7.73	.32
.280	3.67	20.81	.98	2.21	12.83	.59	1.78	10.66	.48	1.62	9.22	.43
.320	5.07	34.53	1.77	3.23	22.47	1.13	2.23	15.49	.77	1.78	11.83	.61
.360	3.75	28.55	1.66	2.06	16.09	.91	1.84	13.96	.81	1.64	11.83	.71
.400	3.20	26.89	1.75	2.31	16.33	1.26	1.95	14.09	1.06	1.55	11.40	.83
.447	4.78	44.97	3.26	2.27	19.15	1.55	1.92	15.15	1.31	1.55	11.93	1.04
.500	5.93	62.88	5.06	2.56	26.04	2.18	1.90	21.57	1.61	1.55	16.80	1.30
.560	2.91	34.33	3.11	2.49	30.35	2.67	2.15	25.19	2.28	1.73	19.17	1.82
.630	3.00	40.37	4.07	2.46	33.64	3.34	1.84	26.19	2.48	1.58	19.53	2.09
.710	6.68	104.82	11.50	3.76	58.11	6.46	2.17	33.46	3.72	1.44	23.65	2.42
.800	2.39	42.48	5.22	1.50	29.02	3.27	1.25	24.91	2.71	1.00	20.20	2.12
.890	1.86	35.87	5.02	1.01	19.72	2.73	.75	18.12	2.00	.70	18.06	1.84
1.000	2.25	49.08	7.68	1.23	30.22	4.20	.87	22.49	2.97	.67	17.83	2.24
1.120	1.81	43.75	7.74	.90	24.82	3.83	.72	21.55	3.05	.56	18.26	2.30
1.250	.84	22.80	4.47	.67	20.27	3.58	.59	18.46	3.14	.50	16.45	2.60
1.400	1.00	31.75	6.72	.48	18.79	3.21	.44	14.86	2.89	.40	12.16	2.57
1.580	.65	22.14	5.53	.39	15.45	3.28	.32	13.46	2.75	.28	10.86	2.25
1.780	.44	21.42	4.78	.34	17.31	3.72	.28	13.69	2.95	.24	10.93	2.45
2.000	.49	22.30	6.69	.25	13.36	3.34	.21	12.22	2.84	.17	11.07	2.23
2.240	.39	20.11	6.64	.23	15.73	3.89	.17	13.43	2.81	.17	10.94	2.74
2.500	.25	16.92	5.25	.22	13.41	4.63	.20	10.90	4.26	.19	9.71	3.85
2.800	.26	19.06	6.95	.24	17.42	6.36	.22	15.44	5.70	.20	13.01	4.86
3.200	.20	19.37	7.16	.19	18.39	6.50	.17	17.13	5.76	.16	15.51	4.90
3.600	.28	23.57	12.42	.16	19.40	7.09	.14	18.31	5.95	.11	16.76	4.90
4.000	.19	20.11	10.55	.15	18.73	8.20	.13	17.97	6.71	.10	16.80	5.18
4.470	.21	21.45	14.63	.13	17.45	8.73	.11	16.96	7.40	.09	16.16	5.88
5.000	.10	16.20	8.94	.09	15.87	7.96	.08	15.58	6.72	.07	15.08	5.14
5.600	.11	14.85	12.13	.08	14.13	8.08	.06	13.87	6.55	.06	13.69	5.69
6.300	.09	14.80	12.70	.07	13.01	9.95	.05	11.97	7.18	.05	12.11	6.05
7.100	.05	10.24	9.25	.04	9.95	6.81	.04	10.25	6.47	.04	10.63	5.96
8.000	.03	10.20	6.14	.03	9.96	6.00	.03	9.63	5.80	.03	9.49	5.48
8.900	.02	10.25	5.09	.02	10.01	5.05	.02	9.67	4.97	.02	9.15	4.83
10.000	.02	9.99	6.28	.02	9.83	5.10	.01	9.58	4.73	.02	9.18	4.45

END

(2−3) INA, UD-component

RESPONSE SPECTRUM

Station = INA (Inage)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:24.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	10.16	6.08	.05	3.13	1.79	.02	2.31	1.18	.01	1.90	.89	.01
.056	9.11	6.12	.06	3.13	1.90	.02	2.49	1.36	.02	1.89	.94	.01
.063	12.42	9.73	.10	2.69	2.03	.02	2.33	1.38	.02	1.94	1.01	.01
.071	6.39	5.30	.06	3.18	2.64	.03	2.12	1.61	.02	1.75	1.11	.02
.080	4.79	4.64	.06	3.04	2.62	.04	2.26	1.93	.03	1.67	1.35	.02
.089	6.08	6.37	.10	3.30	3.47	.05	2.31	2.33	.04	1.63	1.63	.03
.100	8.15	9.83	.16	3.76	4.64	.07	2.45	2.55	.05	1.91	1.81	.04
.112	3.22	4.48	.08	2.76	3.22	.07	2.29	2.67	.06	1.74	1.98	.04
.125	6.76	10.50	.21	2.20	2.91	.07	2.21	2.74	.07	1.97	2.11	.06
.140	10.22	17.70	.40	3.41	4.94	.13	2.80	4.03	.11	2.20	3.11	.08
.158	11.05	21.57	.55	2.92	5.31	.14	2.16	3.80	.11	1.88	3.23	.09
.178	9.29	20.36	.58	2.81	5.78	.18	2.14	4.70	.13	1.74	3.62	.11
.200	4.43	11.35	.35	2.51	6.39	.20	2.07	5.12	.16	1.76	4.08	.14
.224	5.71	15.53	.57	2.57	7.34	.26	2.20	5.96	.22	1.86	4.64	.18
.250	4.77	13.99	.59	2.80	8.05	.35	2.40	6.90	.30	1.91	5.65	.23
.280	6.28	21.60	.98	2.57	8.87	.40	2.20	8.35	.34	1.80	6.71	.27
.320	5.36	20.83	1.09	2.76	11.80	.56	2.13	9.20	.43	1.54	6.79	.30
.360	3.31	14.75	.85	1.90	7.63	.49	1.36	6.27	.35	1.12	5.70	.28
.400	3.69	18.16	1.17	1.65	7.81	.52	1.20	6.09	.38	1.17	5.47	.37
.447	3.25	18.27	1.28	2.03	11.97	.80	1.54	8.03	.61	1.39	6.49	.54
.500	7.87	48.98	3.90	3.30	20.42	1.63	2.49	14.47	1.23	1.76	10.37	.85
.560	5.65	38.93	3.51	3.51	25.37	2.18	2.21	16.51	1.37	1.54	10.65	.94
.630	3.68	28.69	2.89	2.27	17.53	1.78	1.81	15.57	1.42	1.37	12.14	1.06
.710	3.68	33.59	3.67	2.25	20.49	2.25	1.41	13.05	1.40	1.15	10.93	1.12
.800	2.38	24.13	3.02	1.34	15.47	1.69	1.10	12.67	1.39	.89	10.03	1.10
.890	1.35	15.37	2.11	.78	8.81	1.22	.68	8.91	1.06	.65	8.50	.98
1.000	1.43	17.50	2.82	.65	9.60	1.28	.57	8.78	1.12	.48	8.01	.94
1.120	.64	11.62	1.60	.52	9.34	1.30	.43	7.76	1.07	.38	7.12	.91
1.250	1.03	15.84	3.18	.37	7.97	1.14	.26	6.95	.80	.28	6.25	.85
1.400	.42	7.63	1.63	.31	6.80	1.20	.29	6.52	1.13	.27	6.21	.99
1.580	.64	12.75	3.18	.24	8.28	1.21	.22	7.36	1.07	.21	6.60	.95
1.780	.28	6.01	1.73	.15	5.63	.95	.15	6.08	.90	.15	6.24	.86
2.000	.27	8.73	2.13	.17	8.04	1.38	.13	7.34	1.04	.13	6.63	.92
2.240	.23	7.88	2.26	.16	6.96	1.62	.15	6.58	1.42	.13	6.06	1.17
2.500	.20	7.18	2.49	.14	6.87	1.73	.11	6.45	1.36	.10	5.84	1.14
2.800	.10	8.14	1.50	.09	7.65	1.39	.08	7.02	1.28	.08	6.22	1.13
3.200	.15	8.02	3.12	.11	7.05	2.29	.10	6.05	2.00	.08	5.13	1.62
3.600	.26	12.24	6.66	.14	7.44	3.61	.10	5.81	2.53	.08	5.04	1.97
4.000	.12	9.21	3.95	.10	8.40	3.06	.08	7.45	2.56	.07	6.40	2.10
4.470	.10	7.89	4.08	.08	7.50	3.05	.07	6.97	2.54	.06	6.27	2.08
5.000	.08	6.78	4.10	.07	5.85	3.36	.06	5.48	2.97	.06	5.13	2.47
5.600	.14	10.91	8.71	.09	7.80	5.83	.07	5.98	3.95	.05	5.52	3.07
6.300	.08	7.10	5.91	.07	6.34	5.13	.06	6.12	4.48	.05	5.81	3.62
7.100	.07	6.90	6.81	.06	6.33	5.93	.05	6.08	4.86	.04	5.94	3.72
8.000	.08	8.48	9.98	.06	6.58	7.35	.04	6.29	5.24	.03	6.14	3.81
8.900	.05	6.79	8.12	.04	6.66	6.64	.03	6.54	5.04	.03	6.34	3.75
10.000	.02	6.94	4.77	.02	6.84	4.41	.02	6.70	3.96	.02	6.49	3.48

END

(2−4) CHY, NS-component

RESPONSE SPECTRUM

Station = CHY (Chyoshi)
Component = N-S Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:26.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	2.06	1.46	.01	1.46	.71	.01	1.40	.61	.01	1.28	.50	.01
.056	4.76	3.87	.04	1.65	1.24	.01	1.25	.88	.01	1.17	.66	.01
.063	3.21	2.64	.03	1.46	1.22	.01	1.35	.85	.01	1.28	.72	.01
.071	8.07	8.71	.10	2.19	2.34	.03	1.59	1.51	.02	1.47	1.05	.02
.080	8.54	10.60	.14	2.54	3.07	.04	1.87	1.79	.03	1.69	1.41	.03
.089	16.05	22.41	.32	4.44	6.18	.09	2.48	3.36	.05	1.75	2.02	.03
.100	6.88	10.73	.17	2.63	3.75	.07	2.03	2.75	.05	1.77	2.23	.04
.112	13.00	22.59	.41	4.78	7.51	.15	3.10	4.84	.10	2.58	3.67	.08
.125	16.65	32.96	.66	6.71	12.88	.26	4.57	8.59	.18	3.31	5.74	.13
.140	16.07	35.28	.80	6.96	15.36	.34	4.26	8.98	.21	3.05	6.22	.15
.158	4.98	12.28	.32	3.33	8.62	.21	3.00	7.80	.19	2.41	6.34	.15
.178	5.93	16.73	.48	3.79	11.52	.31	2.77	8.56	.22	2.15	6.56	.17
.200	11.51	36.59	1.17	3.52	11.15	.36	2.21	6.62	.22	1.61	5.31	.16
.224	3.69	13.10	.47	2.36	8.29	.30	1.85	6.24	.23	1.34	4.32	.17
.250	8.27	33.02	1.31	3.17	12.49	.50	1.88	7.18	.30	1.21	5.11	.19
.280	4.64	20.56	.92	2.17	9.58	.43	1.68	7.15	.33	1.31	5.59	.25
.320	1.74	9.04	.45	1.54	8.51	.40	1.30	7.75	.34	1.06	6.69	.27
.360	2.86	16.33	.94	1.56	9.04	.51	1.22	7.92	.40	.85	6.88	.28
.400	2.51	16.56	1.02	1.50	9.95	.61	1.08	7.19	.43	.78	5.81	.30
.447	1.71	12.05	.87	1.01	7.78	.51	.83	6.45	.42	.63	5.05	.31
.500	.73	6.47	.47	.66	5.65	.42	.59	5.23	.37	.52	4.93	.32
.560	1.22	10.86	.97	.60	5.89	.47	.53	5.12	.42	.48	5.03	.37
.630	.97	9.61	.97	.63	7.77	.64	.57	7.02	.57	.51	6.04	.51
.710	2.31	26.12	2.95	1.28	14.19	1.64	.93	9.36	1.18	.69	7.17	.86
.800	2.21	27.86	3.59	1.47	18.90	2.37	1.02	13.82	1.65	.69	10.00	1.10
.890	1.42	19.76	2.84	.96	14.30	1.93	.71	11.16	1.42	.51	8.76	1.00
1.000	1.60	24.97	4.05	.92	14.51	2.32	.55	9.68	1.40	.41	8.07	.99
1.120	1.06	19.70	3.38	.74	13.58	2.33	.51	9.93	1.60	.36	7.79	1.12
1.250	.64	14.28	2.52	.48	11.18	1.90	.41	8.50	1.61	.37	7.02	1.40
1.400	.41	10.31	2.05	.40	9.28	2.00	.38	7.94	1.88	.35	7.03	1.68
1.580	.50	12.88	3.18	.40	9.14	2.52	.37	8.57	2.32	.34	7.85	2.03
1.780	.60	17.11	4.79	.35	10.04	2.83	.32	9.48	2.58	.30	8.66	2.24
2.000	.57	18.24	5.81	.31	13.48	3.10	.28	12.13	2.79	.24	10.38	2.37
2.240	.59	21.68	7.54	.32	14.26	4.05	.28	12.89	3.51	.24	11.10	2.97
2.500	.44	18.69	7.02	.34	16.04	5.45	.27	13.08	4.16	.22	10.15	3.38
2.800	.45	19.67	8.95	.30	13.18	5.97	.23	11.89	4.62	.20	10.15	3.77
3.200	.23	14.83	5.89	.20	13.26	5.14	.18	12.30	4.57	.16	10.90	4.08
3.600	.23	13.67	7.70	.17	11.71	5.74	.15	10.99	4.91	.14	10.02	4.19
4.000	.16	10.77	6.34	.14	10.39	5.71	.13	9.92	5.19	.12	9.22	4.51
4.470	.12	10.29	6.10	.12	9.65	5.83	.11	9.33	5.44	.10	8.88	4.86
5.000	.09	8.86	5.85	.09	8.81	5.68	.09	8.70	5.41	.08	8.45	4.98
5.600	.08	8.49	6.18	.07	8.42	5.71	.07	8.34	5.45	.07	8.17	5.04
6.300	.11	11.29	10.76	.07	8.36	7.06	.06	8.17	5.79	.06	7.98	5.02
7.100	.08	10.13	10.56	.07	8.94	8.33	.05	7.95	6.53	.04	7.76	5.20
8.000	.06	9.44	10.17	.05	8.96	8.82	.04	8.31	7.18	.04	7.55	5.61
8.900	.05	8.44	10.54	.04	8.24	8.29	.04	7.97	7.25	.03	7.54	5.90
10.000	.04	7.91	9.14	.03	7.79	8.20	.03	7.61	7.21	.03	7.31	5.91

END

(2−5) CHY, EW-component

RESPONSE SPECTRUM

Station = CHY (Chyoshi)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:26.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	3.32	1.66	.01	1.76	.81	.01	1.56	.50	.01	1.41	.36	.01
.056	5.17	2.98	.03	1.78	.99	.01	1.49	.67	.01	1.44	.47	.01
.063	2.71	1.77	.02	1.55	.85	.01	1.50	.71	.01	1.49	.51	.01
.071	4.80	3.48	.04	2.24	1.21	.02	1.88	.83	.02	1.73	.74	.02
.080	5.22	4.34	.06	2.44	1.70	.03	2.12	1.32	.02	1.90	1.04	.02
.089	7.94	7.26	.11	2.15	1.60	.03	2.07	1.51	.03	1.91	1.27	.03
.100	5.08	5.45	.09	3.27	3.13	.06	2.37	2.21	.04	1.80	1.51	.03
.112	8.53	9.80	.19	4.45	4.99	.10	3.04	3.23	.07	2.19	2.18	.05
.125	10.23	13.94	.28	6.10	7.92	.17	4.39	5.29	.12	3.07	3.42	.08
.140	16.57	25.38	.57	5.35	7.82	.18	3.61	5.07	.12	2.86	3.76	.10
.158	9.06	15.55	.40	3.75	6.24	.16	3.05	4.83	.13	2.50	3.95	.11
.178	9.02	17.39	.50	5.11	9.44	.28	3.96	6.96	.22	2.91	5.04	.16
.200	7.13	15.82	.50	4.13	8.97	.29	3.23	7.07	.23	2.41	5.26	.17
.224	3.07	7.13	.27	2.57	6.32	.23	1.87	4.82	.16	1.72	3.93	.15
.250	8.17	22.38	.89	4.63	12.95	.51	3.00	8.61	.33	2.09	5.64	.22
.280	5.55	17.02	.76	3.14	9.79	.43	2.14	7.17	.29	1.84	5.65	.25
.320	3.20	11.20	.57	2.39	9.03	.43	1.98	7.72	.35	1.61	6.01	.28
.360	2.80	10.96	.63	1.74	7.36	.40	1.44	6.24	.32	1.21	5.44	.27
.400	2.31	10.53	.65	1.49	7.20	.42	1.21	6.08	.34	.97	5.14	.26
.447	1.95	9.48	.68	1.11	5.53	.39	.86	4.67	.30	.75	4.59	.25
.500	1.71	9.81	.75	1.26	7.87	.55	.95	6.46	.41	.84	5.21	.36
.560	2.70	16.66	1.48	1.35	8.05	.74	1.04	5.95	.56	.89	4.64	.48
.630	1.42	9.70	.99	1.28	8.41	.89	1.10	6.82	.76	.88	5.00	.59
.710	1.87	14.66	1.65	1.10	8.92	.97	.95	7.14	.84	.78	5.91	.68
.800	1.82	15.99	2.04	1.22	8.79	1.37	1.04	7.51	1.16	.84	6.32	.90
.890	1.85	18.06	2.56	1.32	13.77	1.83	1.03	11.67	1.41	.74	9.41	1.01
1.000	1.60	17.62	2.80	1.19	14.68	2.07	.95	12.67	1.66	.70	10.31	1.20
1.120	1.79	21.98	3.94	1.03	12.82	2.26	.79	9.49	1.73	.57	7.78	1.19
1.250	1.45	19.90	3.95	.79	11.11	2.16	.59	9.01	1.59	.43	6.93	1.14
1.400	.58	8.86	1.98	.40	7.28	1.36	.36	6.84	1.23	.33	6.17	1.06
1.580	.46	7.93	2.02	.30	6.22	1.31	.26	6.04	1.12	.24	5.78	.99
1.780	.54	10.48	2.97	.29	6.20	1.61	.23	5.73	1.25	.19	5.32	.99
2.000	.74	16.51	5.18	.42	9.32	2.93	.28	6.39	1.97	.20	5.05	1.38
2.240	.59	14.96	5.14	.37	9.90	3.25	.28	6.84	2.43	.21	4.97	1.77
2.500	.42	11.49	4.57	.22	6.87	2.38	.18	6.30	1.97	.15	5.60	1.65
2.800	.22	9.39	3.01	.19	8.59	2.64	.16	7.64	2.18	.13	6.53	1.69
3.200	.28	10.69	5.05	.21	8.14	3.72	.15	6.12	2.66	.12	5.78	2.04
3.600	.10	5.40	2.16	.09	5.04	1.96	.08	4.60	1.74	.07	4.73	1.62
4.000	.09	4.78	2.44	.08	4.56	2.34	.08	4.22	2.18	.07	4.19	1.93
4.470	.09	4.91	3.11	.08	4.75	2.90	.08	4.53	2.64	.07	4.22	2.28
5.000	.14	7.61	5.96	.11	6.48	4.75	.09	5.30	3.96	.07	4.61	3.11
5.600	.15	9.60	8.50	.13	7.79	7.11	.10	6.15	5.59	.08	4.91	3.99
6.300	.13	9.31	8.78	.10	8.25	6.62	.08	7.05	5.31	.06	5.64	3.85
7.100	.07	6.87	5.96	.06	6.56	5.34	.05	6.06	4.69	.04	5.23	3.79
8.000	.05	4.80	5.24	.04	4.73	4.93	.04	4.60	4.54	.04	4.32	3.93
8.900	.05	4.99	6.82	.04	4.26	5.10	.03	4.23	4.39	.03	4.14	3.82
10.000	.03	4.39	5.21	.02	4.32	4.26	.02	4.22	3.67	.02	4.09	3.23

END

(2−6) CHY, UD-component

RESPONSE SPECTRUM

Station = CHY (Chyoshi)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:26.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	3.46	2.24	.02	2.08	1.05	.01	2.02	.91	.01	1.80	.77	.01
.056	6.15	4.67	.04	3.07	2.05	.02	2.37	1.43	.02	1.96	1.09	.01
.063	11.65	10.00	.10	4.41	3.72	.04	2.96	2.53	.03	2.10	1.54	.02
.071	19.32	19.37	.22	5.33	5.08	.06	3.23	2.86	.04	2.49	1.96	.03
.080	16.08	17.81	.23	5.45	5.91	.08	3.13	3.50	.04	2.46	2.69	.03
.089	28.03	35.19	.49	6.73	8.45	.12	3.81	4.68	.07	2.68	3.11	.05
.100	8.53	11.65	.19	4.13	5.55	.09	4.09	5.24	.09	3.10	4.01	.07
.112	12.10	18.90	.34	6.68	10.08	.19	4.74	7.08	.13	3.21	4.76	.09
.125	7.31	12.77	.25	4.62	8.83	.16	3.38	6.47	.12	2.25	4.27	.08
.140	5.69	11.41	.25	2.68	5.51	.12	2.28	4.66	.10	1.88	3.76	.08
.158	2.63	6.14	.15	1.83	4.46	.10	1.61	3.60	.09	1.42	3.05	.08
.178	4.20	10.06	.30	1.75	4.36	.12	1.47	3.53	.10	1.15	2.68	.08
.200	5.65	15.77	.50	1.85	5.60	.16	1.33	3.75	.12	1.16	2.89	.10
.224	5.79	18.02	.65	2.03	7.38	.23	1.59	5.81	.18	1.14	4.24	.12
.250	4.49	15.10	.62	2.76	10.24	.38	2.00	7.25	.28	1.41	4.78	.19
.280	4.29	16.61	.75	1.82	8.57	.32	1.42	6.82	.25	1.05	4.98	.18
.320	3.06	13.60	.70	1.16	5.11	.26	.86	4.58	.19	.74	4.05	.17
.360	2.94	14.88	.85	1.42	6.98	.41	.95	4.70	.27	.73	3.31	.21
.400	3.71	20.71	1.32	1.23	6.48	.44	.94	4.77	.33	.80	3.59	.28
.447	3.35	20.83	1.49	1.40	8.54	.62	.91	5.25	.40	.78	4.39	.34
.500	1.12	7.72	.62	1.25	9.15	.70	1.04	7.98	.57	.82	6.08	.45
.560	1.42	11.01	.99	.97	7.15	.68	.97	5.96	.67	.88	5.33	.60
.630	1.75	15.48	1.55	1.30	11.13	1.14	1.17	9.57	1.02	.96	7.31	.83
.710	3.15	31.15	3.54	1.69	16.63	1.89	1.23	12.46	1.37	.82	8.60	.90
.800	2.11	23.68	3.00	1.26	14.89	1.80	.99	11.75	1.41	.73	9.11	1.02
.890	1.69	22.13	2.98	1.13	16.04	2.00	.82	12.19	1.44	.66	8.97	1.13
1.000	1.08	15.96	2.41	.85	12.97	1.88	.71	10.70	1.58	.58	8.38	1.25
1.120	.77	12.08	2.16	.60	10.33	1.68	.54	9.71	1.51	.47	8.36	1.29
1.250	.86	15.10	2.99	.49	10.03	1.70	.44	9.25	1.52	.40	7.96	1.32
1.400	.50	11.99	2.17	.33	9.13	1.46	.29	7.52	1.26	.27	6.66	1.15
1.580	.35	8.26	1.95	.24	6.69	1.33	.20	5.66	1.12	.20	5.44	1.07
1.780	.25	6.41	1.74	.19	5.65	1.37	.18	5.49	1.25	.17	5.32	1.13
2.000	.19	5.50	1.69	.17	5.05	1.53	.17	4.65	1.47	.15	5.03	1.31
2.240	.27	9.78	3.05	.22	8.30	2.46	.17	6.90	1.92	.14	5.86	1.54
2.500	.21	7.41	2.88	.12	5.92	1.73	.10	5.63	1.37	.09	5.39	1.23
2.800	.16	6.22	2.75	.11	5.30	1.98	.09	4.90	1.52	.08	5.23	1.33
3.200	.16	9.20	3.68	.14	8.37	3.17	.12	7.48	2.63	.10	6.55	2.15
3.600	.17	8.97	5.00	.12	7.13	3.44	.10	6.97	2.94	.09	6.57	2.49
4.000	.14	7.87	4.86	.12	7.01	4.18	.10	6.76	3.56	.08	6.37	2.85
4.470	.17	10.75	7.51	.13	8.70	5.94	.10	7.06	4.57	.08	6.81	3.44
5.000	.16	11.57	9.05	.12	9.19	6.80	.09	8.16	5.24	.07	7.61	3.89
5.600	.11	9.04	7.48	.08	8.76	5.84	.07	8.40	4.73	.06	7.90	4.15
6.300	.06	8.17	4.86	.05	8.07	4.60	.05	7.91	4.24	.05	7.64	3.86
7.100	.04	7.27	4.41	.04	7.27	4.25	.04	7.26	4.00	.04	7.18	3.61
8.000	.03	6.71	4.01	.03	6.74	3.91	.03	6.76	3.76	.03	6.78	3.50
8.900	.02	6.41	3.76	.02	6.44	3.68	.02	6.47	3.56	.02	6.50	3.35
10.000	.02	6.17	4.79	.02	6.19	3.62	.02	6.22	3.30	.02	6.26	3.15

END

(2−7) KSR, NS-component

RESPONSE SPECTRUM

Station = KSR (Kisarazu)
Component = N-S Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:25.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.25	2.18	.03	1.20	1.25	.03	1.12	1.01	.03	1.07	.89	.03
.056	1.18	1.86	.04	1.07	1.24	.03	1.05	1.20	.03	1.05	1.08	.03
.063	1.64	2.95	.06	1.28	1.68	.05	1.17	1.37	.05	1.09	1.16	.04
.071	2.35	6.60	.12	1.42	2.77	.07	1.21	1.94	.06	1.09	1.60	.05
.080	2.33	9.31	.15	1.41	3.92	.09	1.16	2.72	.07	1.11	2.14	.07
.089	2.42	8.78	.19	1.39	3.94	.11	1.23	3.41	.09	1.18	2.99	.09
.100	2.48	11.65	.24	1.46	5.62	.14	1.21	4.47	.12	1.18	3.86	.11
.112	2.86	16.46	.35	1.70	7.24	.21	1.29	4.80	.16	1.13	4.34	.14
.125	3.09	18.98	.47	1.86	9.88	.28	1.48	6.92	.22	1.33	5.90	.20
.140	3.63	26.47	.69	2.61	15.49	.50	2.09	11.62	.40	1.65	8.92	.31
.158	2.40	18.32	.58	2.24	17.29	.54	2.05	14.44	.50	1.71	10.49	.41
.178	3.05	30.32	.94	2.41	23.19	.74	1.94	17.48	.60	1.56	12.34	.48
.200	2.18	25.55	.85	1.73	19.63	.67	1.53	16.35	.59	1.28	12.55	.49
.224	3.17	41.87	1.55	1.93	24.22	.94	1.53	18.13	.74	1.35	14.55	.65
.250	3.83	55.67	2.33	2.93	43.12	1.78	2.22	31.08	1.35	1.73	22.16	1.04
.280	1.99	30.76	1.52	1.85	25.85	1.41	1.87	26.72	1.43	1.68	24.35	1.27
.320	3.54	60.28	3.53	3.17	52.65	3.15	2.74	43.65	2.72	2.23	33.15	2.20
.360	5.23	115.04	6.60	3.98	82.58	5.02	3.36	66.02	4.22	2.60	46.77	3.23
.400	5.75	138.00	8.95	4.36	100.78	6.79	3.18	71.49	4.93	2.35	48.20	3.59
.447	4.95	134.32	9.62	2.34	60.76	4.54	2.00	50.45	3.88	1.74	39.51	3.33
.500	3.76	113.07	9.16	2.19	63.15	5.32	1.86	52.73	4.51	1.63	42.87	3.88
.560	5.51	188.31	16.81	3.28	111.15	10.01	2.17	74.72	6.60	1.56	50.83	4.68
.630	2.54	96.25	9.83	1.85	72.88	7.15	1.66	63.62	6.39	1.42	51.57	5.36
.710	5.40	233.01	26.50	2.42	105.30	11.86	1.69	73.14	8.24	1.33	57.11	6.41
.800	3.27	161.22	20.36	2.66	133.26	16.56	2.03	106.03	12.60	1.45	78.37	8.86
.890	4.48	243.77	34.52	1.95	109.82	14.99	1.63	91.67	12.47	1.27	72.96	9.58
1.000	1.46	90.68	14.23	1.16	74.40	11.30	.93	68.92	8.93	.83	60.73	7.82
1.120	1.23	84.40	15.06	.91	65.00	11.10	.66	47.84	8.00	.50	46.71	5.81
1.250	.61	51.94	9.34	.52	39.93	7.90	.47	37.43	7.17	.41	38.31	6.05
1.400	.45	39.94	8.59	.42	35.84	7.94	.38	33.87	7.11	.33	34.46	6.00
1.580	.55	55.22	13.30	.30	35.25	7.37	.25	32.61	6.10	.23	32.70	5.28
1.780	.41	45.30	12.69	.27	35.38	8.43	.21	30.88	6.31	.19	31.61	5.56
2.000	.35	46.48	13.71	.22	31.39	8.70	.18	31.93	6.79	.17	32.46	5.92
2.240	.23	37.01	11.32	.17	36.44	8.24	.16	36.00	7.62	.15	35.34	6.78
2.500	.16	42.99	9.85	.15	41.91	9.15	.14	40.52	8.25	.13	38.64	7.07
2.800	.15	46.62	11.47	.14	45.19	10.48	.12	43.32	9.20	.10	40.79	7.49
3.200	.13	45.77	13.27	.10	44.41	10.31	.10	42.59	9.68	.10	40.27	8.83
3.600	.14	40.71	18.08	.10	40.05	12.97	.10	39.08	12.19	.10	37.52	11.08
4.000	.10	35.32	15.67	.09	35.14	14.56	.09	34.81	13.75	.09	34.17	12.56
4.470	.13	40.08	24.95	.08	30.46	15.77	.08	30.11	14.67	.08	30.28	13.51
5.000	.07	34.07	16.05	.06	33.30	15.57	.07	32.24	14.89	.07	30.68	13.86
5.600	.05	35.97	15.72	.05	35.23	14.93	.05	34.19	14.42	.06	32.65	13.63
6.300	.05	36.76	20.00	.04	36.15	14.51	.04	35.27	13.49	.04	33.92	12.96
7.100	.04	37.00	17.98	.03	36.51	15.12	.03	35.80	12.60	.04	34.65	12.04
8.000	.03	37.09	17.28	.02	36.66	15.05	.02	36.04	13.46	.03	35.05	12.20
8.900	.03	36.90	20.08	.02	36.53	15.86	.02	35.99	13.48	.02	35.13	12.37
10.000	.02	36.29	17.93	.01	36.01	13.53	.01	35.60	12.75	.02	34.93	11.88

END

(2−8) KSR, EW-component

RESPONSE SPECTRUM

Station = KSR (Kisarazu)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:25.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	2.03	3.71	.05	1.34	1.68	.03	1.28	1.53	.03	1.18	1.29	.03
.056	1.84	3.64	.05	1.50	2.41	.04	1.33	1.72	.04	1.23	1.36	.03
.063	2.62	6.34	.09	1.56	2.94	.06	1.41	2.50	.05	1.29	2.01	.05
.071	2.89	9.94	.13	1.38	3.23	.06	1.35	3.00	.06	1.29	2.55	.06
.080	1.68	6.13	.10	1.53	4.84	.09	1.35	3.66	.08	1.25	2.96	.07
.089	2.87	12.69	.21	1.31	4.73	.09	1.17	3.75	.08	1.18	3.17	.08
.100	2.61	13.48	.24	1.63	7.60	.15	1.33	5.45	.12	1.15	3.93	.10
.112	2.03	10.11	.23	1.49	6.73	.17	1.16	5.31	.13	1.11	4.01	.12
.125	3.57	20.39	.50	1.61	7.98	.23	1.33	6.52	.19	1.22	4.82	.17
.140	4.24	30.94	.75	1.60	11.47	.28	1.41	7.87	.25	1.27	6.40	.22
.158	2.34	19.54	.53	1.42	10.75	.32	1.28	9.01	.29	1.23	8.08	.28
.178	2.58	21.78	.74	1.66	13.38	.48	1.37	11.79	.39	1.30	10.16	.37
.200	4.49	46.97	1.63	2.48	24.91	.90	1.71	15.54	.62	1.34	11.54	.48
.224	3.40	41.84	1.54	2.11	21.33	.96	1.75	17.48	.79	1.37	13.91	.61
.250	6.42	90.28	3.63	3.06	41.27	1.73	1.98	25.04	1.12	1.41	16.02	.79
.280	1.87	27.81	1.33	1.40	20.68	.99	1.19	17.19	.84	1.15	14.72	.80
.320	3.53	61.36	3.28	1.85	31.65	1.72	1.31	23.01	1.21	1.20	19.48	1.09
.360	4.75	96.51	5.58	2.38	45.16	2.79	1.64	31.64	1.91	1.38	24.57	1.59
.400	4.02	89.21	5.83	2.79	61.70	4.04	1.96	41.31	2.82	1.47	31.44	2.08
.447	2.98	75.37	5.39	2.10	51.16	3.79	1.84	46.42	3.31	1.57	39.80	2.78
.500	5.55	157.03	12.57	2.74	71.32	6.20	2.13	56.19	4.80	1.63	47.02	3.62
.560	5.37	168.97	15.26	3.95	119.47	11.20	2.73	80.19	7.71	1.78	50.98	4.96
.630	3.87	137.65	13.91	2.81	98.55	10.10	2.31	78.14	8.25	1.84	55.85	6.47
.710	8.60	346.34	39.26	4.27	172.50	19.48	3.07	119.41	13.93	2.07	75.45	9.25
.800	6.84	311.21	39.63	2.49	116.35	14.40	1.94	95.70	11.16	1.52	75.70	8.63
.890	3.92	197.10	28.13	1.45	75.97	10.42	1.24	69.64	8.82	1.06	63.19	7.41
1.000	2.65	150.00	24.04	1.36	83.55	12.34	1.10	69.47	9.89	.86	57.18	7.55
1.120	1.73	113.89	19.66	.81	63.21	9.16	.72	57.18	8.12	.62	49.50	6.78
1.250	.82	59.96	11.53	.49	49.06	6.91	.46	47.15	6.46	.42	43.65	5.72
1.400	.73	60.93	12.88	.37	39.23	6.56	.35	38.35	6.15	.33	36.80	5.56
1.580	.38	39.59	8.64	.27	32.55	5.99	.26	32.03	5.73	.25	30.61	5.24
1.780	.36	39.83	10.28	.21	35.05	5.99	.20	32.97	5.52	.19	30.36	5.11
2.000	.33	41.32	11.94	.21	32.24	7.57	.19	30.05	6.86	.18	27.78	5.99
2.240	.43	56.25	19.44	.23	33.42	10.46	.16	29.92	7.14	.14	27.52	5.99
2.500	.12	34.14	6.70	.11	32.24	5.93	.10	30.53	5.56	.10	28.20	5.08
2.800	.17	29.09	12.03	.12	28.56	8.67	.09	27.79	6.24	.08	26.57	5.04
3.200	.07	27.05	6.17	.06	26.42	5.48	.06	26.22	5.11	.06	25.89	4.73
3.600	.07	25.92	8.79	.06	25.76	7.40	.05	25.61	5.87	.04	25.38	4.34
4.000	.08	25.10	11.76	.05	25.11	7.88	.04	25.09	5.71	.03	24.97	4.29
4.470	.04	25.01	7.44	.04	24.93	6.48	.03	24.83	5.43	.03	24.68	4.30
5.000	.04	24.75	8.85	.03	24.65	5.95	.02	24.53	5.23	.02	24.38	4.44
5.600	.03	23.97	9.55	.03	23.99	8.21	.02	23.98	6.63	.02	23.94	5.64
6.300	.04	23.45	14.44	.03	23.48	10.94	.03	23.50	8.88	.02	23.51	6.61
7.100	.04	23.24	16.09	.03	23.18	12.23	.02	23.10	9.58	.02	23.12	7.48
8.000	.02	23.91	9.86	.01	23.78	8.29	.01	23.60	6.65	.01	23.37	5.68
8.900	.01	24.10	6.86	.01	23.97	6.40	.01	23.80	5.75	.01	23.55	4.84
10.000	.01	23.88	4.67	.01	23.81	4.24	.01	23.70	4.23	.01	23.54	4.15

END

(2−9) KSR, UD-component

RESPONSE SPECTRUM

Station = KSR (Kisarazu)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:25.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	8.59	3.96	.03	3.94	1.89	.02	2.77	1.17	.01	2.05	.84	.01
.056	7.39	4.05	.04	3.48	1.81	.02	2.70	1.36	.01	2.11	.94	.01
.063	9.53	5.67	.06	4.25	2.42	.03	3.26	1.75	.02	2.38	1.20	.01
.071	19.08	13.19	.15	3.88	2.45	.03	2.57	1.66	.02	1.96	1.21	.02
.080	8.46	6.50	.09	3.49	2.34	.04	2.64	1.67	.03	1.94	1.36	.02
.089	17.52	15.12	.22	5.42	4.55	.07	2.83	2.42	.03	1.97	1.59	.02
.100	9.07	8.97	.14	4.59	4.29	.07	3.17	2.96	.05	2.18	2.00	.03
.112	19.20	21.07	.38	5.11	5.20	.10	3.82	3.86	.07	2.59	2.58	.05
.125	6.82	8.23	.17	3.42	4.04	.08	2.95	2.90	.07	2.44	2.25	.06
.140	7.43	10.06	.23	3.81	5.24	.12	3.12	3.71	.10	2.57	2.75	.08
.158	8.43	12.79	.33	4.60	6.94	.18	2.96	4.49	.12	2.22	2.96	.09
.178	6.64	11.52	.33	3.81	6.52	.19	3.13	5.49	.16	2.29	3.67	.11
.200	4.44	8.38	.28	4.52	8.70	.28	3.24	5.96	.20	2.22	3.88	.14
.224	12.20	26.95	.96	3.65	8.10	.29	2.57	5.78	.20	1.83	4.10	.14
.250	7.82	19.17	.77	2.89	6.96	.28	1.92	4.42	.19	1.62	3.40	.16
.280	8.14	21.97	1.00	3.15	8.65	.39	2.18	5.36	.27	1.75	4.44	.21
.320	6.50	19.98	1.05	2.62	8.45	.42	2.06	6.52	.33	1.64	4.87	.26
.360	7.40	26.23	1.51	4.17	15.13	.85	2.68	10.11	.54	1.73	6.59	.35
.400	12.07	47.65	3.04	3.41	13.18	.86	1.89	8.06	.47	1.32	5.60	.32
.447	6.93	30.30	2.18	1.85	8.56	.58	1.37	6.46	.43	1.03	4.96	.32
.500	5.41	26.59	2.12	1.43	7.16	.56	1.03	5.11	.40	.89	4.57	.34
.560	2.21	11.96	1.09	1.30	7.03	.64	1.04	5.23	.51	.82	3.99	.40
.630	2.98	18.50	1.86	1.36	8.34	.85	1.14	7.06	.71	.92	5.84	.56
.710	3.41	23.57	2.70	2.23	15.43	1.77	1.59	11.42	1.26	1.10	8.02	.86
.800	2.66	22.81	2.67	2.06	17.17	2.07	1.48	12.08	1.48	1.05	8.60	1.04
.890	2.16	19.17	2.69	1.43	13.40	1.78	.98	9.63	1.21	.75	7.30	.90
1.000	2.04	20.53	3.20	.93	10.57	1.46	.69	7.76	1.07	.50	5.77	.76
1.120	1.17	13.38	2.31	.72	8.05	1.41	.49	6.47	.95	.34	5.70	.65
1.250	.55	6.81	1.36	.44	5.98	1.08	.35	5.64	.86	.28	5.27	.67
1.400	.50	7.26	1.53	.36	5.35	1.11	.31	4.51	.95	.24	4.37	.73
1.580	.58	9.37	2.28	.27	4.91	1.06	.20	4.10	.78	.18	3.74	.70
1.780	.70	12.86	3.51	.36	7.09	1.81	.24	4.59	1.18	.16	3.55	.79
2.000	.22	5.44	1.39	.17	4.77	1.06	.13	4.16	.83	.11	3.69	.67
2.240	.27	7.75	2.11	.19	5.55	1.54	.15	4.44	1.18	.12	3.75	.94
2.500	.25	6.43	2.46	.17	5.17	1.63	.14	4.14	1.40	.11	3.65	1.03
2.800	.28	8.10	3.45	.13	4.86	1.61	.10	3.83	1.21	.08	3.36	.98
3.200	.17	5.73	2.77	.09	4.25	1.42	.07	3.77	1.04	.06	3.44	.82
3.600	.14	5.16	2.93	.08	4.10	1.55	.06	3.81	1.14	.05	3.65	.86
4.000	.11	4.97	2.66	.06	4.71	1.56	.04	4.40	1.11	.04	4.04	.87
4.470	.10	5.00	3.27	.06	4.14	1.88	.04	4.04	1.38	.03	3.90	1.04
5.000	.05	4.34	1.92	.04	4.16	1.62	.04	3.94	1.34	.03	3.71	1.08
5.600	.05	3.77	2.34	.04	3.76	2.06	.04	3.73	1.73	.03	3.67	1.35
6.300	.06	4.76	4.02	.05	4.26	2.93	.04	3.79	2.22	.03	3.59	1.56
7.100	.06	4.88	4.97	.04	4.08	3.43	.03	3.81	2.39	.02	3.72	1.74
8.000	.04	4.24	3.67	.03	4.08	3.07	.03	3.95	2.59	.02	3.80	2.07
8.900	.02	3.79	2.95	.02	3.76	2.55	.02	3.72	2.19	.02	3.66	1.77
10.000	.02	3.22	2.42	.01	3.27	1.93	.01	3.33	1.53	.01	3.38	1.25

END

(2−10) IWM, NS-component

RESPONSE SPECTRUM

Station = IWM (Iwaiminami)
Component = N-S Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:27.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.70	.37	0.00	1.15	.14	0.00	1.12	.12	0.00	1.10	.11	0.00
.056	2.44	.78	.01	1.12	.20	0.00	1.12	.17	0.00	1.13	.15	0.00
.063	2.68	.98	.01	1.36	.26	.01	1.27	.21	.01	1.22	.19	.01
.071	2.28	.91	.01	1.58	.49	.01	1.40	.34	.01	1.30	.26	.01
.080	4.81	2.30	.03	1.46	.59	.01	1.30	.46	.01	1.32	.37	.01
.089	2.78	1.46	.02	1.87	.85	.02	1.49	.61	.01	1.39	.52	.01
.100	7.14	4.59	.07	2.10	1.14	.02	1.57	.86	.02	1.39	.69	.01
.112	7.47	5.27	.10	3.52	2.29	.05	2.23	1.43	.03	1.53	.97	.02
.125	10.91	8.88	.18	4.39	3.51	.07	2.72	2.13	.04	1.78	1.31	.03
.140	5.19	4.62	.11	3.59	3.10	.07	2.40	2.00	.05	1.84	1.40	.04
.158	7.46	7.41	.19	3.82	3.62	.10	2.66	2.47	.07	2.22	1.90	.06
.178	13.76	15.62	.45	4.74	5.60	.16	2.98	3.48	.10	2.18	2.23	.07
.200	5.84	7.16	.24	3.41	4.12	.14	2.27	2.67	.09	1.57	2.06	.06
.224	11.38	16.52	.59	2.94	4.42	.15	2.02	3.18	.10	1.45	2.25	.07
.250	7.79	12.70	.51	3.19	4.89	.21	2.26	3.48	.15	1.63	2.53	.10
.280	4.69	8.21	.38	3.32	6.03	.27	2.33	4.07	.19	1.82	3.24	.15
.320	4.38	9.05	.47	3.58	7.32	.38	2.78	5.59	.29	1.96	4.02	.21
.360	8.18	19.11	1.10	3.63	8.00	.49	2.35	5.07	.32	1.51	3.81	.20
.400	5.85	15.30	.97	2.61	6.41	.44	1.99	5.07	.33	1.47	3.83	.24
.447	3.69	11.26	.77	2.83	8.49	.59	2.05	5.99	.42	1.43	3.99	.29
.500	7.05	23.11	1.84	2.84	8.90	.74	1.72	5.38	.45	1.27	4.25	.33
.560	3.65	13.51	1.19	1.98	7.16	.65	1.44	5.32	.47	1.08	4.10	.34
.630	2.36	9.71	.97	1.30	5.36	.54	1.01	4.33	.42	.77	3.25	.31
.710	3.00	14.47	1.57	1.30	6.37	.68	.96	5.21	.50	.76	4.12	.39
.800	3.23	16.85	2.15	1.46	8.23	.97	1.15	6.19	.76	.87	4.81	.56
.890	3.11	18.17	2.57	1.66	10.65	1.37	1.14	8.04	.93	.78	5.89	.62
1.000	1.04	7.24	1.08	.78	6.16	.81	.62	4.91	.64	.48	4.55	.49
1.120	1.03	7.69	1.35	.72	5.65	.94	.52	4.34	.68	.35	3.36	.45
1.250	1.35	11.03	2.19	.67	5.63	1.09	.40	3.43	.65	.33	2.99	.52
1.400	1.32	12.38	2.70	.63	6.17	1.28	.49	4.10	.99	.39	3.28	.76
1.580	1.29	13.07	3.35	.80	9.11	2.07	.58	6.41	1.49	.40	4.54	1.03
1.780	.98	11.75	3.22	.63	7.51	2.08	.42	4.86	1.39	.32	4.14	1.03
2.000	.47	6.41	1.96	.29	4.35	1.20	.25	3.81	1.01	.23	3.40	.92
2.240	.79	11.64	4.15	.43	6.66	2.22	.25	4.19	1.31	.19	3.25	.95
2.500	.25	4.90	1.63	.21	4.13	1.37	.18	3.56	1.15	.14	3.04	.88
2.800	.34	6.61	2.81	.18	4.20	1.46	.15	3.49	1.20	.12	3.07	.98
3.200	.16	3.56	1.76	.15	3.54	1.60	.13	3.41	1.31	.11	3.12	1.09
3.600	.29	7.61	3.98	.21	6.00	2.87	.16	4.51	2.07	.11	3.34	1.43
4.000	.27	7.83	4.48	.20	6.47	3.38	.15	5.10	2.49	.11	3.84	1.70
4.470	.11	4.69	2.31	.09	3.93	1.92	.08	3.66	1.61	.07	3.52	1.30
5.000	.09	4.10	2.45	.07	3.59	1.69	.06	3.24	1.47	.05	3.02	1.27
5.600	.06	3.11	1.89	.05	2.97	1.62	.04	2.78	1.36	.04	2.52	1.11
6.300	.05	3.65	2.02	.04	3.40	1.57	.03	3.11	1.36	.03	2.76	1.19
7.100	.05	3.03	2.85	.05	2.95	2.50	.04	2.81	2.11	.04	2.62	1.68
8.000	.04	3.01	2.47	.03	2.75	2.10	.03	2.66	1.83	.03	2.54	1.52
8.900	.04	2.87	2.94	.03	2.68	2.32	.02	2.48	1.76	.02	2.39	1.61
10.000	.03	2.67	3.40	.03	2.55	2.66	.02	2.40	2.08	.02	2.18	1.85

END

(2−11) IWM, EW-component

RESPONSE SPECTRUM

Station = IWM (Iwaiminami)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:27.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.61	.30	0.00	1.12	.14	0.00	1.13	.14	0.00	1.13	.14	0.00
.056	2.62	.82	.01	1.30	.21	0.00	1.26	.19	0.00	1.20	.19	0.00
.063	2.92	1.07	.01	1.46	.43	.01	1.30	.36	.01	1.23	.31	.01
.071	3.35	1.37	.02	2.07	.66	.01	1.61	.46	.01	1.44	.40	.01
.080	4.50	2.25	.03	2.06	.85	.01	1.65	.62	.01	1.60	.54	.01
.089	4.79	2.78	.04	2.59	1.20	.02	2.19	.93	.02	1.93	.78	.02
.100	4.44	2.91	.05	2.94	1.58	.03	2.53	1.24	.03	2.16	.97	.02
.112	4.68	3.36	.06	2.40	1.48	.03	2.30	1.35	.03	2.11	1.13	.03
.125	14.56	12.40	.25	3.80	2.59	.07	2.90	1.86	.05	2.23	1.33	.04
.140	4.84	4.45	.10	3.05	2.43	.07	2.90	2.30	.06	2.51	1.87	.05
.158	13.65	14.41	.38	5.90	6.31	.16	4.20	4.28	.12	2.80	2.65	.08
.178	13.39	16.49	.47	5.03	5.59	.18	3.22	3.88	.11	2.49	2.85	.09
.200	9.10	12.66	.40	3.66	4.65	.16	2.46	3.24	.11	2.06	2.53	.09
.224	4.51	7.00	.25	3.08	4.28	.17	2.57	3.63	.14	1.96	2.80	.11
.250	12.23	21.14	.84	4.08	6.71	.28	2.84	4.15	.20	2.15	3.15	.15
.280	8.39	16.09	.73	3.38	5.75	.29	3.21	5.59	.28	2.71	4.40	.23
.320	9.06	19.70	1.03	6.20	13.34	.70	4.56	9.43	.51	3.17	6.53	.35
.360	13.45	33.57	1.93	5.25	13.24	.75	3.91	9.95	.56	2.84	7.13	.40
.400	12.53	34.72	2.21	4.88	14.25	.86	3.22	9.20	.57	2.10	6.28	.36
.447	6.97	21.70	1.54	4.38	13.98	.97	3.00	9.48	.66	2.06	6.44	.44
.500	4.30	14.78	1.19	2.03	7.71	.56	1.72	6.06	.47	1.35	5.14	.36
.560	4.59	17.65	1.59	2.28	9.13	.79	1.65	6.73	.57	1.19	5.14	.40
.630	4.74	20.69	2.08	2.61	11.49	1.14	1.54	6.81	.67	.93	4.69	.40
.710	4.67	23.10	2.60	1.88	9.63	1.04	1.28	6.62	.71	.90	4.52	.49
.800	2.24	12.91	1.59	1.15	6.79	.82	.74	4.63	.52	.59	3.92	.41
.890	1.38	8.70	1.21	.86	5.47	.75	.58	4.80	.51	.45	4.23	.39
1.000	1.05	7.37	1.16	.87	5.90	.96	.60	3.95	.66	.44	3.91	.47
1.120	.89	6.61	1.23	.74	6.40	1.02	.50	4.69	.69	.37	4.06	.50
1.250	1.13	9.79	1.95	.59	5.25	1.02	.38	3.86	.65	.34	3.53	.54
1.400	.98	9.31	2.12	.52	5.08	1.12	.31	3.69	.66	.26	3.11	.56
1.580	1.26	13.67	3.48	.54	6.41	1.50	.42	4.90	1.15	.32	3.54	.87
1.780	1.10	13.79	3.86	.70	8.99	2.46	.51	6.74	1.76	.36	4.66	1.21
2.000	.91	12.83	4.04	.44	5.99	1.96	.31	5.20	1.35	.23	4.51	.99
2.240	.47	7.51	2.60	.26	4.56	1.47	.20	4.17	1.13	.16	3.62	.86
2.500	.26	5.73	1.82	.23	4.85	1.61	.20	4.01	1.36	.16	3.35	1.05
2.800	.31	7.02	2.71	.21	5.20	1.81	.17	4.17	1.45	.14	3.56	1.13
3.200	.33	7.66	3.76	.22	5.09	2.49	.19	4.27	2.14	.16	3.50	1.69
3.600	.24	8.10	3.40	.20	6.86	2.80	.15	5.59	2.16	.12	4.35	1.63
4.000	.33	9.35	5.80	.18	6.05	3.20	.13	4.52	2.30	.10	3.84	1.73
4.470	.16	5.73	3.55	.14	5.33	2.99	.11	4.93	2.31	.09	4.31	1.80
5.000	.13	6.07	3.61	.11	5.64	2.95	.09	5.12	2.40	.08	4.46	2.03
5.600	.12	5.88	4.01	.10	4.89	3.42	.09	4.57	2.95	.08	4.10	2.57
6.300	.10	5.66	4.54	.09	5.24	4.03	.08	4.71	3.58	.07	4.03	3.06
7.100	.11	5.85	5.88	.08	5.46	4.32	.07	4.95	3.85	.06	4.28	3.24
8.000	.07	5.09	5.07	.06	4.84	4.23	.05	4.49	3.76	.05	4.27	3.45
8.900	.08	5.16	6.87	.05	4.93	4.74	.05	4.70	4.22	.05	4.53	3.83
10.000	.07	5.27	7.65	.05	5.12	5.63	.04	4.98	4.60	.04	4.78	4.13

END

(2−12) IWM, UD-component

RESPONSE SPECTRUM

Station = IWM (Iwaiminami)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:27.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.45	.29	0.00	1.10	.14	0.00	1.10	.12	0.00	1.09	.10	0.00
.056	3.83	.98	.01	1.23	.21	0.00	1.12	.15	0.00	1.09	.12	0.00
.063	3.92	1.08	.01	1.46	.26	0.00	1.31	.23	0.00	1.16	.19	0.00
.071	2.93	.85	.01	1.42	.39	.01	1.26	.29	0.00	1.15	.27	0.00
.080	7.81	3.00	.04	1.97	.61	.01	1.51	.46	.01	1.22	.34	.01
.089	4.34	1.84	.03	2.42	.98	.01	1.70	.59	.01	1.41	.45	.01
.100	10.55	4.93	.08	3.07	1.36	.02	2.12	.86	.02	1.68	.57	.01
.112	7.45	4.00	.07	3.29	1.38	.03	2.60	1.00	.03	2.07	.72	.02
.125	12.45	7.49	.15	4.97	2.82	.06	3.04	1.66	.04	2.35	1.14	.03
.140	10.23	6.93	.16	5.13	3.16	.08	4.18	2.49	.06	3.13	1.80	.05
.158	28.15	21.75	.55	5.80	4.45	.11	4.39	3.24	.09	3.14	2.16	.06
.178	7.65	6.63	.19	2.47	2.15	.06	2.38	1.97	.06	2.27	1.74	.06
.200	11.19	10.94	.35	4.40	3.81	.14	2.63	2.24	.08	1.96	1.70	.06
.224	6.27	6.48	.25	2.95	2.93	.12	2.43	2.28	.10	1.95	1.85	.08
.250	7.86	9.24	.38	4.07	4.56	.20	2.97	3.31	.14	2.28	2.56	.11
.280	12.90	17.64	.79	4.07	5.28	.25	3.24	4.15	.20	2.54	3.27	.15
.320	7.91	12.37	.63	4.72	7.37	.38	3.15	4.81	.25	2.53	3.82	.20
.360	7.28	12.74	.74	4.63	7.93	.47	3.35	6.03	.34	2.34	4.45	.23
.400	12.60	24.80	1.57	5.99	11.63	.75	3.92	7.32	.49	2.56	4.69	.31
.447	11.01	24.10	1.72	4.34	10.13	.68	2.71	6.43	.42	1.92	4.38	.29
.500	6.60	16.18	1.29	3.01	8.24	.59	2.01	5.67	.39	1.34	3.85	.26
.560	9.86	27.03	2.41	2.91	8.05	.71	1.67	4.42	.41	1.06	3.04	.25
.630	4.25	13.24	1.32	1.55	4.46	.48	1.14	3.15	.35	.88	2.36	.27
.710	3.99	13.67	1.57	1.61	5.08	.63	1.21	3.95	.48	.89	3.00	.34
.800	3.17	12.67	1.58	1.98	7.90	.99	1.29	5.44	.64	.81	3.64	.39
.890	1.28	5.99	.79	1.01	5.00	.63	.81	4.03	.50	.63	3.01	.38
1.000	1.56	7.74	1.22	1.21	6.03	.95	.88	4.28	.68	.61	3.03	.47
1.120	2.31	12.61	2.26	.95	5.81	.93	.65	4.44	.63	.48	3.32	.46
1.250	1.54	9.50	1.88	.75	4.99	.92	.63	3.92	.76	.48	2.95	.57
1.400	.87	5.68	1.33	.57	4.03	.88	.43	3.37	.66	.39	2.92	.56
1.580	.80	6.33	1.56	.51	4.93	.99	.38	3.59	.73	.33	3.01	.60
1.780	.67	6.05	1.66	.44	4.30	1.09	.33	3.49	.82	.28	2.85	.67
2.000	.78	7.93	2.44	.67	7.05	2.09	.43	4.50	1.33	.30	3.40	.90
2.240	.36	4.53	1.42	.37	4.95	1.45	.33	4.29	1.27	.24	3.49	.92
2.500	.63	8.43	3.07	.38	5.02	1.85	.26	3.66	1.25	.18	2.83	.86
2.800	.44	6.34	2.70	.23	4.04	1.41	.16	3.45	1.00	.13	2.94	.76
3.200	.18	3.31	1.46	.13	2.55	1.02	.11	2.32	.89	.10	2.41	.79
3.600	.17	3.67	1.70	.11	3.08	1.15	.09	2.63	.90	.08	2.36	.79
4.000	.18	4.16	2.26	.12	2.74	1.44	.08	2.47	.94	.06	2.37	.65
4.470	.13	3.54	2.01	.10	3.11	1.51	.07	2.81	1.06	.06	2.50	.90
5.000	.16	4.58	3.21	.11	3.10	2.09	.08	2.56	1.49	.06	2.36	1.20
5.600	.06	2.53	1.48	.06	2.40	1.40	.05	2.34	1.20	.05	2.27	1.10
6.300	.07	3.37	2.09	.05	2.91	1.61	.05	2.47	1.40	.05	2.23	1.32
7.100	.08	3.70	3.05	.06	3.10	2.46	.05	2.90	2.05	.05	2.68	1.66
8.000	.06	3.63	3.17	.05	3.43	2.43	.04	3.19	1.78	.03	2.90	1.35
8.900	.05	2.73	2.83	.03	2.74	2.03	.03	2.73	1.73	.03	2.67	1.37
10.000	.04	2.30	2.82	.03	2.22	2.30	.02	2.30	1.70	.02	2.40	1.45

END

(2−13) CHK, NS-component

RESPONSE SPECTRUM

Station = CHK (Chikura)
Component = N-S Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:27.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	3.57	1.00	.01	1.44	.29	0.00	1.20	.24	0.00	1.09	.19	0.00
.056	4.63	1.58	.01	1.86	.59	.01	1.30	.38	0.00	1.07	.28	0.00
.063	7.47	2.86	.03	2.03	.75	.01	1.40	.46	.01	1.20	.33	0.00
.071	6.75	2.94	.03	1.98	.79	.01	1.70	.65	.01	1.38	.51	.01
.080	6.46	3.26	.04	3.56	1.64	.02	2.33	1.02	.02	1.67	.71	.01
.089	8.54	4.47	.07	2.90	1.49	.02	1.80	.86	.01	1.53	.70	.01
.100	14.09	8.93	.14	2.80	1.50	.03	1.87	1.08	.02	1.46	.83	.01
.112	5.65	3.90	.07	2.94	2.04	.04	2.14	1.50	.03	1.57	1.05	.02
.125	8.67	6.81	.14	3.43	2.57	.05	2.07	1.62	.03	1.50	1.18	.02
.140	10.73	9.43	.22	2.60	2.32	.05	1.95	1.63	.04	1.63	1.23	.03
.158	11.29	11.09	.29	3.87	3.87	.10	2.34	2.25	.06	1.53	1.40	.04
.178	9.99	11.31	.32	2.81	2.96	.09	2.20	2.19	.07	1.64	1.60	.05
.200	7.77	9.72	.32	3.24	4.33	.13	2.39	3.02	.10	1.69	2.03	.07
.224	10.54	14.91	.54	3.15	4.34	.16	1.91	2.57	.10	1.48	2.01	.08
.250	8.85	14.09	.57	3.23	4.38	.21	2.19	2.73	.14	1.66	2.00	.11
.280	8.03	14.27	.64	2.70	4.74	.22	2.05	3.57	.16	1.79	2.54	.14
.320	9.94	20.19	1.04	3.10	5.99	.32	1.92	4.06	.20	1.72	3.06	.18
.360	3.62	8.42	.48	2.78	6.48	.37	2.19	4.91	.29	1.81	3.72	.24
.400	10.98	28.12	1.80	4.04	9.93	.66	2.78	6.56	.45	1.98	4.66	.32
.447	8.81	24.88	1.80	4.42	11.98	.90	2.91	7.78	.59	2.12	5.72	.43
.500	7.37	23.52	1.89	3.29	10.27	.84	2.53	8.18	.65	1.90	6.26	.48
.560	7.05	25.37	2.26	2.89	10.35	.93	2.06	7.62	.66	1.54	5.93	.49
.630	8.25	33.16	3.35	2.53	10.00	1.03	1.67	6.29	.67	1.19	4.65	.47
.710	4.69	21.23	2.42	2.57	11.80	1.33	1.59	7.02	.82	1.09	4.44	.55
.800	3.29	16.71	2.16	2.23	11.80	1.46	1.65	9.14	1.08	1.12	6.44	.72
.890	2.86	16.21	2.32	1.51	8.35	1.22	1.16	7.03	.93	.89	6.09	.71
1.000	2.85	18.44	2.92	1.79	11.54	1.83	1.22	7.92	1.24	.85	5.71	.85
1.120	3.71	26.78	4.77	1.59	11.43	2.05	1.02	7.95	1.30	.73	5.83	.91
1.250	1.47	11.43	2.34	.84	7.08	1.34	.58	5.31	.93	.47	4.92	.74
1.400	2.17	19.11	4.35	.90	8.58	1.81	.59	6.40	1.18	.42	4.73	.82
1.580	1.79	18.30	4.57	.91	9.43	2.32	.62	6.91	1.57	.44	5.52	1.08
1.780	.81	9.49	2.64	.72	7.72	2.33	.59	6.49	1.91	.44	5.05	1.39
2.000	.81	10.98	3.32	.68	8.53	2.77	.53	6.81	2.15	.36	5.18	1.46
2.240	.67	10.70	3.44	.56	8.66	2.88	.45	6.77	2.28	.33	5.10	1.63
2.500	.80	12.70	5.10	.49	9.46	3.14	.35	7.10	2.24	.25	5.28	1.57
2.800	.26	6.13	2.10	.20	5.41	1.62	.18	4.63	1.38	.16	3.75	1.21
3.200	.26	5.52	2.70	.19	5.04	1.95	.16	4.45	1.71	.16	3.69	1.46
3.600	.35	8.12	4.70	.21	5.12	2.80	.15	4.55	2.03	.14	3.92	1.62
4.000	.20	7.27	3.28	.18	6.10	2.89	.15	4.95	2.43	.12	4.52	1.89
4.470	.18	6.05	3.77	.15	5.71	3.00	.12	5.31	2.37	.10	4.80	1.88
5.000	.21	7.41	5.27	.13	5.66	3.42	.10	5.11	2.58	.09	4.49	2.13
5.600	.12	4.41	3.77	.10	4.37	3.06	.07	4.30	2.39	.07	4.09	2.10
6.300	.07	3.65	2.72	.07	3.74	2.76	.07	3.79	2.71	.07	3.75	2.48
7.100	.10	5.24	5.32	.08	4.42	4.36	.08	3.98	3.85	.07	3.63	3.19
8.000	.15	8.66	10.11	.11	6.54	7.33	.08	5.30	5.16	.06	4.63	3.37
8.900	.10	6.90	8.17	.08	6.43	6.59	.06	5.84	5.01	.05	5.11	3.54
10.000	.05	5.11	5.53	.05	5.05	5.01	.04	4.91	4.34	.04	4.64	3.47

END

(2−14) CHK, EW-component

RESPONSE SPECTRUM

Station = CHK (Chikura)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:27.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	2.18	.61	.01	1.34	.27	0.00	1.25	.19	0.00	1.19	.16	0.00
.056	7.95	2.56	.02	1.88	.57	.01	1.38	.30	0.00	1.23	.22	0.00
.063	5.06	1.86	.02	2.12	.65	.01	1.74	.41	.01	1.38	.31	.01
.071	3.82	1.55	.02	2.12	.69	.01	1.73	.56	.01	1.42	.44	.01
.080	4.31	1.94	.03	2.17	.92	.01	1.94	.72	.01	1.66	.61	.01
.089	6.12	3.23	.05	2.38	1.19	.02	2.20	1.01	.02	1.70	.72	.01
.100	7.84	4.74	.08	2.30	1.36	.02	1.80	.96	.02	1.38	.71	.01
.112	6.59	4.57	.08	2.53	1.40	.03	1.85	.95	.02	1.56	.71	.02
.125	4.82	3.66	.08	2.75	1.95	.04	2.27	1.52	.04	1.83	1.12	.03
.140	5.72	4.67	.11	3.01	2.25	.06	2.21	1.53	.04	1.64	1.21	.03
.158	10.43	10.22	.26	2.84	2.64	.07	2.17	1.82	.05	1.67	1.32	.04
.178	10.21	11.31	.32	4.34	4.67	.14	2.69	2.91	.08	2.03	1.91	.06
.200	5.81	6.57	.23	3.44	3.63	.14	2.56	2.44	.10	2.08	1.74	.08
.224	7.14	9.84	.36	3.10	4.11	.16	2.35	2.90	.12	2.09	2.14	.10
.250	11.72	18.01	.73	5.29	8.01	.33	3.23	4.62	.20	2.21	2.93	.14
.280	6.04	10.43	.47	2.80	4.60	.22	2.21	3.84	.17	1.89	3.01	.15
.320	15.31	30.58	1.57	3.88	7.49	.40	2.62	5.00	.27	1.88	3.64	.19
.360	6.26	13.90	.81	2.58	5.85	.33	1.91	4.42	.25	1.63	3.49	.21
.400	6.47	16.14	1.03	2.16	4.91	.34	1.76	3.83	.28	1.50	2.89	.24
.447	11.56	32.45	2.31	4.18	11.39	.83	2.28	6.31	.45	1.62	3.79	.32
.500	7.45	22.39	1.86	3.64	10.00	.91	2.50	7.25	.62	1.81	5.50	.44
.560	8.07	28.15	2.53	3.84	13.13	1.20	2.49	8.70	.78	1.62	5.82	.50
.630	9.85	38.65	3.90	3.39	13.41	1.34	2.33	9.33	.92	1.63	6.27	.63
.710	3.97	17.58	2.00	1.94	8.58	.98	1.50	6.56	.75	1.21	5.34	.60
.800	3.59	17.44	2.29	1.97	9.60	1.26	1.28	6.33	.82	1.19	5.50	.75
.890	2.65	15.15	2.10	1.98	10.85	1.57	1.34	7.45	1.05	1.17	5.99	.91
1.000	4.15	25.41	4.15	2.68	17.19	2.67	1.85	11.93	1.84	1.29	8.02	1.26
1.120	3.32	23.28	4.16	1.28	9.87	1.60	1.33	9.16	1.65	1.14	6.95	1.39
1.250	5.38	41.71	8.39	2.49	19.69	3.88	1.49	12.01	2.31	.95	7.26	1.45
1.400	2.34	20.02	4.58	1.29	12.47	2.52	1.02	10.19	1.98	.78	7.65	1.50
1.580	2.45	24.64	6.10	1.01	11.31	2.52	.73	8.70	1.82	.57	6.66	1.40
1.780	1.57	17.65	4.96	.91	10.27	2.87	.68	7.78	2.12	.50	6.75	1.53
2.000	1.59	20.72	6.33	1.13	15.67	4.50	.77	11.38	3.06	.50	8.16	1.94
2.240	.46	8.05	2.30	.48	7.92	2.40	.46	7.92	2.31	.40	7.42	1.97
2.500	.72	12.22	4.52	.46	8.31	2.84	.39	7.54	2.42	.33	6.69	2.00
2.800	.49	9.40	3.84	.27	7.23	2.10	.26	7.09	2.00	.24	6.62	1.80
3.200	.21	7.35	2.15	.19	6.95	1.91	.17	6.55	1.75	.16	6.13	1.55
3.600	.16	4.93	2.09	.14	4.90	1.81	.14	5.21	1.73	.14	5.34	1.61
4.000	.10	5.11	1.63	.10	5.01	1.62	.10	4.96	1.62	.11	4.97	1.60
4.470	.12	4.76	2.47	.10	4.80	1.96	.09	4.81	1.83	.10	4.78	1.77
5.000	.16	5.60	3.93	.10	4.83	2.60	.09	4.70	2.31	.09	4.56	2.10
5.600	.11	4.89	3.33	.09	4.41	2.92	.09	4.15	2.73	.09	4.08	2.47
6.300	.18	8.41	7.05	.12	6.17	4.73	.08	4.80	3.28	.08	4.53	2.71
7.100	.12	6.97	6.25	.09	6.44	4.55	.07	5.92	3.25	.06	5.28	2.33
8.000	.07	6.37	4.23	.06	6.09	3.83	.05	5.72	3.34	.05	5.23	2.73
8.900	.04	4.80	3.32	.04	4.68	3.08	.04	4.65	2.78	.04	4.57	2.40
10.000	.03	4.49	2.93	.03	4.44	2.82	.03	4.37	2.66	.03	4.24	2.40

END

(2−15) CHK, UD-component

RESPONSE SPECTRUM

Station = CHK (Chikura)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:27.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	7.44	1.49	.01	2.36	.43	0.00	1.70	.28	0.00	1.28	.18	0.00
.056	5.74	1.31	.01	2.31	.51	0.00	1.66	.34	0.00	1.30	.22	0.00
.063	7.06	1.81	.02	2.24	.49	.01	1.75	.36	0.00	1.46	.28	0.00
.071	4.76	1.39	.02	2.15	.56	.01	1.79	.45	.01	1.60	.35	.01
.080	7.83	2.58	.03	2.59	.67	.01	2.35	.59	.01	1.97	.47	.01
.089	8.94	3.35	.05	3.61	1.19	.02	2.69	.91	.01	2.18	.68	.01
.100	14.61	6.12	.10	3.61	1.42	.02	2.70	.97	.02	2.18	.78	.01
.112	6.78	3.06	.06	2.81	1.33	.02	2.53	1.07	.02	2.22	.87	.02
.125	12.98	6.75	.14	4.59	2.45	.05	3.30	1.68	.03	2.23	1.08	.02
.140	15.95	9.27	.21	5.30	3.15	.07	3.37	1.94	.04	2.42	1.31	.03
.158	21.50	14.21	.36	4.61	2.99	.08	3.03	2.02	.05	2.24	1.41	.04
.178	6.66	4.83	.14	4.46	3.18	.09	2.80	1.99	.06	1.93	1.30	.04
.200	5.86	5.00	.16	3.87	3.20	.10	2.65	2.10	.07	1.80	1.44	.05
.224	10.14	9.35	.34	4.07	3.94	.14	2.56	2.46	.09	1.74	1.59	.06
.250	9.72	10.15	.41	2.74	2.75	.12	1.98	2.23	.08	1.43	1.57	.06
.280	5.02	5.80	.26	3.12	3.64	.16	2.17	2.51	.11	1.50	1.76	.08
.320	9.69	12.99	.67	2.73	3.90	.19	1.92	2.70	.13	1.45	1.95	.10
.360	8.68	13.13	.75	2.91	4.24	.25	1.84	2.68	.16	1.24	1.90	.11
.400	8.58	14.41	.92	2.55	4.36	.27	1.91	3.32	.20	1.34	2.44	.14
.447	10.58	19.82	1.42	2.35	4.45	.31	1.68	3.26	.22	1.16	2.44	.15
.500	3.28	6.89	.55	1.77	3.59	.30	1.19	2.83	.20	.91	2.09	.15
.560	7.92	18.69	1.67	2.09	6.14	.55	1.31	3.08	.28	.84	2.13	.18
.630	3.92	10.37	1.04	2.51	6.41	.67	1.66	4.03	.44	1.08	2.58	.28
.710	3.77	11.20	1.28	1.30	3.75	.44	1.02	3.01	.34	.80	2.43	.26
.800	1.69	5.54	.73	1.15	3.53	.49	.82	2.83	.35	.62	2.13	.26
.890	1.23	4.55	.65	1.15	4.05	.61	.84	2.94	.44	.62	2.17	.32
1.000	1.42	6.07	.96	.93	4.10	.62	.69	2.95	.46	.57	2.24	.37
1.120	1.12	5.23	.95	.91	4.42	.76	.77	3.52	.64	.55	2.55	.45
1.250	1.94	10.23	2.03	1.21	6.19	1.26	.72	3.74	.75	.49	2.63	.50
1.400	1.47	8.79	1.93	.74	4.19	.97	.51	3.43	.66	.41	2.66	.53
1.580	1.51	10.24	2.53	.87	5.90	1.46	.53	3.67	.88	.35	2.63	.57
1.780	.61	4.80	1.30	.38	3.26	.81	.35	2.73	.75	.28	2.18	.59
2.000	1.02	8.68	2.75	.50	4.61	1.34	.31	3.25	.82	.23	2.29	.59
2.240	.72	7.10	2.43	.38	3.91	1.29	.32	2.86	1.07	.25	2.19	.81
2.500	.52	5.84	2.20	.30	3.56	1.24	.23	2.94	.98	.19	2.39	.77
2.800	.43	4.74	2.26	.24	3.59	1.27	.18	3.09	.95	.16	2.59	.80
3.200	.27	4.28	1.87	.21	3.53	1.45	.16	2.75	1.09	.12	2.14	.77
3.600	.25	4.25	2.18	.14	2.99	1.24	.12	2.41	1.00	.09	2.26	.78
4.000	.22	4.18	2.38	.13	3.47	1.41	.10	2.90	1.02	.07	2.45	.74
4.470	.10	2.19	1.31	.08	1.97	1.11	.07	1.97	.89	.06	2.03	.71
5.000	.13	3.65	2.26	.10	2.85	1.66	.07	2.22	1.21	.06	1.75	.85
5.600	.10	3.00	2.02	.07	2.25	1.44	.05	2.00	1.03	.04	1.74	.86
6.300	.05	1.94	1.46	.04	1.87	1.15	.04	1.78	1.04	.04	1.64	.90
7.100	.05	2.43	1.52	.04	2.16	1.23	.03	1.88	.97	.03	1.63	.81
8.000	.04	2.12	1.90	.03	1.79	1.28	.02	1.58	.98	.02	1.41	.80
8.900	.04	2.15	1.97	.03	1.97	1.56	.02	1.76	1.17	.02	1.56	.84
10.000	.03	1.87	1.78	.02	1.71	1.25	.02	1.54	1.03	.02	1.41	.81

END

(2−16) KTU, NS-component

RESPONSE SPECTRUM

Station = KTU (Katsuura)
Component = N-S Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:22.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.76	2.27	.02	1.20	.76	.02	1.10	.56	.01	1.06	.44	.01
.056	1.76	1.94	.03	1.20	.70	.02	1.09	.56	.02	1.06	.45	.02
.063	1.84	2.61	.04	1.10	.92	.02	1.05	.73	.02	1.04	.60	.02
.071	2.59	4.28	.07	1.16	1.96	.03	1.08	1.45	.03	1.06	1.10	.03
.080	2.56	5.72	.09	1.21	2.36	.04	1.09	2.13	.04	1.03	1.54	.03
.089	3.23	9.42	.14	1.33	2.86	.06	1.10	2.16	.05	1.03	1.66	.04
.100	1.90	4.38	.10	1.46	2.61	.08	1.27	1.94	.07	1.17	1.56	.06
.112	2.26	8.26	.15	1.59	3.73	.11	1.48	2.47	.10	1.32	1.96	.09
.125	2.01	5.26	.17	1.71	3.45	.14	1.50	3.05	.12	1.33	2.50	.11
.140	3.71	16.75	.39	1.67	5.20	.17	1.64	4.85	.17	1.43	3.61	.15
.158	3.40	14.77	.45	2.50	8.58	.33	1.96	5.80	.26	1.57	4.24	.21
.178	3.46	20.28	.58	2.10	9.28	.35	1.77	7.44	.30	1.57	5.78	.26
.200	2.54	16.80	.54	2.19	11.68	.46	1.80	10.11	.38	1.57	8.04	.33
.224	4.22	29.19	1.12	3.13	21.01	.83	2.20	14.28	.58	1.60	9.71	.42
.250	7.79	64.29	2.58	3.72	26.04	1.23	2.48	17.21	.82	1.95	13.07	.64
.280	7.27	67.67	3.02	3.44	27.61	1.43	2.87	23.08	1.19	2.29	18.65	.93
.320	8.69	92.03	4.71	5.28	51.04	2.86	3.60	36.03	1.94	2.46	24.86	1.31
.360	10.91	129.86	7.49	6.21	68.06	4.26	4.07	44.39	2.79	2.49	28.59	1.69
.400	4.31	53.99	3.65	3.61	44.55	3.05	3.00	34.17	2.53	2.36	27.12	1.98
.447	3.00	45.08	3.18	2.74	39.67	2.90	2.43	33.58	2.55	2.07	28.51	2.16
.500	5.50	91.61	7.28	3.37	54.53	4.46	2.45	37.36	3.22	1.85	31.92	2.39
.560	3.12	61.13	5.18	2.72	53.93	4.51	2.24	43.67	3.70	1.69	32.23	2.74
.630	7.40	155.61	15.54	4.08	86.80	8.56	3.01	61.37	6.28	2.16	42.44	4.47
.710	5.90	138.99	15.74	3.93	98.92	10.49	3.10	76.65	8.23	2.28	54.47	5.97
.800	3.26	85.98	11.05	2.74	72.92	9.26	2.25	60.50	7.57	1.77	47.67	5.86
.890	1.63	48.83	6.85	1.29	45.21	5.41	1.31	44.75	5.44	1.23	41.44	5.02
1.000	1.34	47.45	7.10	1.23	45.54	6.51	1.11	43.62	5.82	1.02	40.23	5.28
1.120	1.39	62.90	9.25	1.28	57.19	8.52	1.16	50.44	7.64	1.02	42.38	6.58
1.250	1.32	57.84	10.94	1.20	53.77	9.90	1.05	48.78	8.66	.90	42.68	7.18
1.400	.98	53.45	10.12	.81	50.05	8.36	.73	46.00	7.48	.64	41.06	6.45
1.580	.62	33.67	8.20	.42	34.37	5.50	.40	34.74	5.23	.39	34.38	5.02
1.780	.40	28.51	6.78	.30	29.06	4.98	.27	29.70	4.47	.28	30.22	4.45
2.000	.34	29.49	7.19	.23	29.41	4.89	.23	29.31	4.69	.22	29.11	4.42
2.240	.26	30.18	6.88	.20	29.78	5.36	.18	29.30	4.57	.18	28.69	4.31
2.500	.17	29.23	5.76	.16	28.93	5.40	.16	28.49	4.96	.16	27.89	4.76
2.800	.19	27.48	7.94	.14	27.21	5.77	.14	26.88	5.53	.14	26.48	5.19
3.200	.11	23.65	6.07	.11	23.64	5.88	.11	23.94	5.64	.12	24.25	5.33
3.600	.08	23.01	5.48	.07	22.69	5.07	.08	22.27	5.11	.09	22.80	5.09
4.000	.08	21.83	6.47	.06	21.93	4.83	.06	22.09	4.95	.08	22.35	5.04
4.470	.05	22.33	5.51	.05	22.22	5.48	.06	22.13	5.45	.07	22.10	5.38
5.000	.05	21.59	6.48	.05	21.52	6.32	.05	21.46	6.12	.06	21.51	5.86
5.600	.04	22.49	6.75	.04	22.30	6.61	.04	22.04	6.42	.05	21.70	6.16
6.300	.03	22.74	6.50	.03	22.57	6.45	.03	22.33	6.38	.04	21.99	6.25
7.100	.03	22.52	7.15	.02	22.44	6.39	.03	22.30	6.39	.04	22.07	6.34
8.000	.02	22.37	8.11	.02	22.33	6.74	.02	22.26	6.70	.03	22.11	6.62
8.900	.02	22.48	7.36	.02	22.44	7.28	.02	22.38	7.18	.03	22.24	7.01
10.000	.02	22.82	8.01	.02	22.75	7.89	.02	22.66	7.71	.02	22.50	7.46

END

(2−17) KTU, EW-component

RESPONSE SPECTRUM

Station = KTU (Katsuura)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:22.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.97	2.42	.02	1.11	.94	.01	1.05	.89	.01	1.02	.69	.01
.056	4.53	7.10	.07	1.51	2.25	.02	1.14	1.29	.02	1.05	.88	.02
.063	4.56	8.50	.09	1.50	2.44	.03	1.13	1.62	.02	1.06	1.09	.02
.071	4.22	7.98	.10	1.54	1.98	.04	1.30	1.65	.03	1.19	1.22	.03
.080	2.20	4.68	.07	1.36	2.10	.04	1.27	1.98	.04	1.20	1.55	.04
.089	4.80	12.93	.18	1.44	3.44	.05	1.29	2.37	.05	1.24	1.65	.05
.100	4.19	11.81	.20	1.79	3.16	.09	1.49	2.53	.07	1.34	2.03	.06
.112	3.28	10.91	.20	1.47	4.08	.09	1.29	2.98	.08	1.25	2.29	.07
.125	8.57	32.12	.64	1.91	7.19	.14	1.22	4.20	.09	1.19	2.64	.09
.140	3.43	14.06	.32	1.88	6.76	.18	1.36	4.67	.13	1.26	3.00	.12
.158	3.77	17.68	.45	1.60	6.96	.19	1.43	4.69	.17	1.39	3.66	.16
.178	2.71	14.29	.41	1.37	4.67	.21	1.43	4.56	.22	1.44	4.27	.22
.200	3.34	18.71	.64	1.86	8.63	.36	1.77	6.88	.34	1.66	6.18	.32
.224	5.77	38.25	1.39	2.46	14.83	.59	1.99	10.66	.48	1.78	8.33	.42
.250	3.06	21.50	.92	2.22	13.57	.66	1.99	11.70	.59	1.82	10.11	.54
.280	4.15	34.44	1.56	2.82	21.59	1.06	2.31	17.85	.86	1.93	13.65	.71
.320	4.31	40.35	2.12	3.12	29.67	1.53	2.39	21.79	1.17	1.78	15.29	.86
.360	6.05	64.87	3.76	3.63	37.87	2.26	2.74	28.60	1.69	1.97	20.42	1.20
.400	6.51	77.90	4.99	4.60	54.09	3.53	3.12	35.10	2.38	1.97	22.98	1.48
.447	4.86	67.53	4.66	3.26	45.53	3.12	2.13	29.38	2.03	1.59	21.82	1.50
.500	3.13	46.48	3.75	2.23	34.83	2.67	1.85	28.91	2.21	1.58	23.54	1.86
.560	2.62	44.19	3.94	1.62	29.80	2.44	1.52	27.14	2.27	1.42	23.77	2.09
.630	2.57	48.68	4.89	1.63	32.91	3.10	1.52	29.35	2.87	1.34	24.43	2.48
.710	3.02	64.60	7.31	1.58	35.47	3.82	1.40	32.01	3.37	1.19	27.99	2.79
.800	1.88	50.90	5.79	1.50	40.48	4.61	1.16	32.44	3.53	.93	28.52	2.78
.890	2.71	72.77	10.31	1.21	34.91	4.59	.97	30.68	3.67	.78	26.73	2.86
1.000	.73	28.31	3.49	.68	26.66	3.26	.65	24.26	3.08	.61	21.42	2.78
1.120	.98	33.63	5.92	.66	24.05	3.96	.45	19.35	2.70	.44	17.74	2.49
1.250	1.09	41.10	8.16	.71	24.72	5.32	.57	20.49	4.22	.42	16.91	3.08
1.400	1.11	47.18	10.41	.58	28.60	5.46	.48	23.23	4.45	.39	17.83	3.56
1.580	.56	26.85	6.69	.42	24.60	5.03	.36	22.44	4.33	.31	19.21	3.57
1.780	.61	33.36	9.30	.39	24.08	5.97	.26	18.02	4.00	.22	16.47	3.17
2.000	.39	23.43	7.52	.27	18.39	5.13	.22	15.42	4.10	.16	15.21	2.98
2.240	.20	16.99	4.77	.15	16.75	3.49	.13	16.42	3.09	.13	15.95	2.73
2.500	.14	17.78	4.11	.12	17.51	3.61	.10	17.12	3.06	.11	16.55	2.93
2.800	.12	18.22	4.33	.11	17.91	4.11	.10	17.50	3.83	.10	16.91	3.47
3.200	.10	17.65	4.92	.10	17.51	4.66	.09	17.29	4.31	.09	16.91	3.83
3.600	.07	17.27	4.63	.07	17.20	4.42	.07	17.07	4.13	.07	16.82	3.70
4.000	.07	17.37	5.68	.07	17.26	5.13	.06	17.10	4.46	.05	16.83	3.63
4.470	.08	17.51	7.44	.07	17.36	6.62	.06	17.15	5.62	.05	16.84	4.39
5.000	.12	19.00	14.99	.08	17.15	9.51	.05	16.97	6.22	.05	16.71	5.05
5.600	.09	16.69	13.15	.07	16.63	9.77	.05	16.55	7.27	.04	16.40	5.72
6.300	.05	16.04	9.15	.04	16.05	7.81	.04	16.05	6.83	.04	16.02	5.90
7.100	.03	15.59	8.10	.03	15.62	7.45	.03	15.66	6.96	.03	15.69	6.23
8.000	.03	15.38	7.88	.02	15.41	6.94	.02	15.44	6.59	.02	15.48	6.04
8.900	.02	15.31	7.55	.02	15.33	6.35	.02	15.35	5.96	.02	15.38	5.58
10.000	.01	15.29	6.63	.01	15.29	5.88	.01	15.30	5.78	.02	15.31	5.63

END

(2−18) KTU, UD-component

RESPONSE SPECTRUM

Station = KTU (Katsuura)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08:22.00
Sampling interval = 0.005(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	12.56	12.94	.10	3.13	3.00	.03	2.51	2.23	.02	1.96	1.61	.02
.056	10.16	11.73	.11	4.29	4.48	.05	3.12	2.99	.03	2.17	1.95	.02
.063	12.20	16.13	.16	3.65	4.44	.05	2.50	3.01	.03	1.77	1.93	.02
.071	12.55	18.34	.21	3.98	5.47	.07	2.52	3.17	.04	1.88	2.28	.03
.080	4.76	7.62	.10	3.02	4.59	.06	2.13	3.24	.05	1.72	2.57	.04
.089	5.31	9.99	.14	2.52	4.87	.07	1.84	3.48	.05	1.59	2.67	.04
.100	6.09	12.82	.20	2.81	4.85	.09	2.31	3.76	.08	1.77	2.83	.06
.112	7.13	16.64	.30	3.22	7.23	.14	2.24	5.37	.09	1.59	3.82	.07
.125	17.84	45.92	.93	4.02	10.75	.21	2.43	6.70	.13	1.83	4.73	.09
.140	7.83	22.71	.51	4.43	13.52	.29	3.01	9.22	.20	2.10	5.66	.13
.158	4.38	14.14	.36	2.20	7.58	.18	2.22	7.01	.18	1.80	5.77	.15
.178	7.20	26.75	.76	2.13	7.78	.23	1.90	6.71	.20	1.49	5.25	.15
.200	7.91	33.34	1.06	3.16	13.08	.42	1.85	7.78	.25	1.27	5.79	.17
.224	9.73	45.21	1.63	2.36	11.46	.40	1.64	7.97	.27	1.27	5.94	.21
.250	5.07	26.18	1.06	1.67	9.81	.35	1.33	6.86	.28	1.11	5.51	.23
.280	4.60	26.82	1.20	1.88	10.29	.49	1.39	7.29	.36	1.08	5.80	.28
.320	5.64	37.54	1.93	3.31	22.13	1.13	2.17	14.01	.74	1.40	8.52	.47
.360	4.30	33.38	1.86	2.17	16.45	.94	1.55	12.12	.67	1.24	9.20	.53
.400	3.84	31.52	2.05	1.96	16.90	1.05	1.35	11.47	.72	1.16	8.65	.61
.447	2.94	27.80	1.96	1.76	17.08	1.18	1.37	13.08	.91	1.06	9.54	.69
.500	2.09	21.45	1.75	1.23	13.35	1.03	.91	10.90	.75	.79	9.50	.65
.560	1.79	20.97	1.88	1.09	12.98	1.14	.81	10.76	.85	.68	8.51	.70
.630	2.78	36.66	3.69	1.37	17.15	1.82	.95	11.59	1.25	.71	8.78	.93
.710	2.09	31.35	3.53	1.19	17.14	2.00	.89	13.24	1.48	.62	9.65	1.01
.800	1.62	28.62	3.46	.96	18.16	2.05	.80	14.36	1.70	.62	10.60	1.29
.890	2.75	51.40	7.27	1.34	25.93	3.54	.90	17.68	2.38	.64	13.04	1.66
1.000	1.13	24.63	3.77	.76	17.65	2.53	.58	13.23	1.92	.44	10.52	1.43
1.120	.48	11.85	2.01	.36	10.11	1.49	.33	9.76	1.37	.29	8.99	1.19
1.250	.39	11.21	2.02	.30	10.51	1.59	.23	9.95	1.18	.22	9.29	1.09
1.400	.74	22.52	4.87	.48	13.77	3.13	.31	10.83	2.04	.21	9.50	1.31
1.580	.48	15.78	3.99	.29	9.80	2.40	.22	8.23	1.82	.16	8.54	1.32
1.780	.49	18.57	5.18	.25	10.98	2.64	.19	8.87	1.93	.14	7.62	1.39
2.000	.21	11.84	2.75	.16	9.00	2.15	.13	8.42	1.67	.10	7.65	1.25
2.240	.11	8.18	1.82	.08	8.00	1.28	.07	7.73	1.10	.08	7.31	1.14
2.500	.20	10.49	4.17	.10	6.59	2.07	.08	6.60	1.67	.07	6.56	1.38
2.800	.10	9.00	2.51	.06	8.23	1.66	.06	7.35	1.53	.06	6.39	1.33
3.200	.09	6.99	3.19	.05	6.57	1.76	.04	6.30	1.49	.04	6.08	1.21
3.600	.07	7.42	2.97	.04	7.20	1.73	.03	6.91	1.36	.03	6.52	1.10
4.000	.04	7.75	1.91	.03	7.45	1.53	.03	7.09	1.30	.02	6.63	1.04
4.470	.03	6.52	1.72	.02	6.45	1.55	.02	6.35	1.34	.02	6.18	1.08
5.000	.03	6.00	2.56	.02	5.96	1.73	.01	5.91	1.17	.02	5.84	.95
5.600	.01	6.18	1.49	.01	6.13	1.36	.01	6.07	1.25	.01	5.98	1.11
6.300	.01	6.34	1.67	.01	6.18	1.40	.01	6.13	1.31	.01	6.04	1.17
7.100	.01	6.48	1.78	.01	6.33	1.63	.01	6.15	1.43	.01	6.03	1.19
8.000	.01	6.40	2.14	.01	6.29	1.74	.01	6.16	1.53	.01	5.99	1.29
8.900	.01	6.49	2.11	.01	6.40	1.82	.01	6.28	1.63	.01	6.11	1.38
10.000	.01	6.31	2.22	.01	6.25	2.04	.01	6.18	1.82	.01	6.07	1.53

END

(2−19) ICH, NS-component

RESPONSE SPECTRUM

Station = ICH (Niphon-Gousei-Gomu)
Component = N-S Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08
Sampling interval = 0.01(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.07	.54	.01	1.03	.48	.01	1.01	.47	.01	1.01	.44	.01
.056	1.35	1.22	.02	1.20	.89	.02	1.13	.74	.02	1.07	.62	.02
.063	1.16	.95	.02	1.23	.80	.02	1.17	.73	.02	1.10	.69	.02
.071	1.42	2.15	.04	1.04	1.29	.03	1.04	.96	.03	1.06	.88	.03
.080	1.33	2.20	.04	1.17	1.38	.04	1.13	1.28	.04	1.10	1.12	.03
.089	1.60	3.77	.06	1.32	2.49	.05	1.16	1.97	.05	1.06	1.66	.04
.100	1.93	4.78	.10	1.33	3.46	.07	1.26	2.58	.06	1.18	2.12	.06
.112	2.60	7.79	.16	1.70	4.53	.11	1.44	3.24	.09	1.35	2.95	.08
.125	3.83	13.49	.30	1.88	6.00	.15	1.73	4.40	.14	1.64	4.13	.13
.140	3.41	14.05	.33	2.86	9.27	.28	2.47	7.87	.24	2.09	6.40	.20
.158	8.58	41.99	1.06	4.68	19.24	.58	3.51	13.83	.44	2.58	9.41	.32
.178	4.14	22.46	.65	3.32	16.25	.52	3.05	15.51	.48	2.44	12.42	.38
.200	9.59	57.85	1.91	3.85	21.69	.77	3.14	17.90	.62	2.35	13.63	.46
.224	3.80	24.17	.95	3.01	19.76	.75	2.48	16.07	.62	2.04	12.30	.50
.250	6.09	47.76	1.89	3.10	25.56	.96	2.01	16.15	.62	1.77	12.46	.54
.280	8.72	75.84	3.40	2.79	23.50	1.08	2.14	17.60	.83	1.95	15.45	.75
.320	14.24	141.22	7.24	6.24	63.34	3.17	3.44	34.64	1.74	2.04	18.99	1.02
.360	4.14	48.28	2.67	2.59	30.67	1.67	1.88	21.63	1.21	1.62	16.38	1.02
.400	4.64	57.32	3.69	2.64	32.59	2.10	2.20	27.25	1.74	1.68	21.59	1.31
.447	3.36	46.87	3.33	2.41	35.61	2.39	2.00	31.20	1.97	1.41	23.47	1.36
.500	5.89	91.59	7.32	3.25	54.02	4.02	2.28	37.69	2.82	1.57	24.03	1.91
.560	4.04	69.79	6.29	2.81	51.29	4.37	2.12	37.92	3.28	1.46	28.50	2.22
.630	4.18	81.75	8.24	2.27	45.88	4.47	1.90	37.91	3.73	1.51	29.22	2.90
.710	2.59	57.01	6.49	1.72	40.53	4.30	1.50	36.78	3.73	1.21	30.64	2.95
.800	2.39	59.48	7.58	1.39	42.70	4.41	1.07	35.69	3.39	.77	28.91	2.41
.890	2.03	56.41	7.98	1.21	30.91	4.77	.84	26.71	3.28	.61	21.76	2.33
1.000	1.29	42.33	6.42	.99	32.12	4.92	.75	27.49	3.71	.54	21.37	2.63
1.120	1.93	68.16	12.03	1.03	36.25	6.41	.76	27.77	4.69	.56	22.76	3.43
1.250	1.23	48.85	9.58	.90	38.38	6.95	.72	29.30	5.59	.56	21.74	4.25
1.400	.90	40.14	8.76	.66	32.63	6.40	.54	26.25	5.19	.43	20.33	4.00
1.580	.36	23.85	4.44	.32	22.03	3.90	.28	19.81	3.42	.25	17.10	2.85
1.780	.53	31.17	8.37	.32	19.03	5.03	.21	17.69	3.34	.17	16.31	2.44
2.000	.45	29.11	8.86	.25	16.15	5.04	.18	14.39	3.48	.13	14.06	2.54
2.240	.18	16.43	4.48	.12	15.67	2.97	.11	14.72	2.73	.11	13.50	2.44
2.500	.23	19.63	7.23	.11	14.28	3.55	.10	13.72	2.87	.10	12.88	2.49
2.800	.12	17.33	4.57	.08	16.49	3.10	.08	15.44	2.87	.07	14.07	2.56
3.200	.15	15.91	7.88	.10	15.35	5.30	.09	14.60	4.37	.07	13.84	3.48
3.600	.13	16.00	8.22	.09	14.69	5.93	.09	14.39	5.41	.07	13.94	4.43
4.000	.12	16.08	9.93	.09	13.99	7.48	.07	13.83	5.53	.06	13.56	4.29
4.470	.08	14.63	7.47	.05	14.24	5.42	.05	13.70	4.46	.05	12.95	3.99
5.000	.11	16.81	13.23	.06	14.15	7.81	.05	13.51	5.63	.05	12.64	5.04
5.600	.10	19.53	16.34	.08	16.19	12.79	.06	15.20	9.41	.04	13.92	6.43
6.300	.06	16.39	11.19	.04	15.91	8.36	.04	15.29	6.46	.04	14.45	5.65
7.100	.04	17.51	8.96	.03	17.01	8.28	.03	16.34	7.38	.03	15.41	6.20
8.000	.05	16.98	17.38	.04	16.63	11.89	.03	16.14	7.92	.03	15.41	6.08
8.900	.03	15.61	13.10	.03	15.45	10.63	.02	15.20	8.09	.02	14.79	5.82
10.000	.04	14.72	17.63	.03	14.40	13.28	.02	13.94	10.23	.02	13.76	7.95

END

(2−20) ICH, EW-component

RESPONSE SPECTRUM

Station = ICH (Niphon-Gousei-Gomu)
Component = E-W Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08
Sampling interval = 0.01(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.05	.49	.01	1.01	.45	.01	1.01	.41	.01	1.02	.39	.01
.056	1.20	.68	.01	1.10	.60	.01	1.07	.55	.01	1.05	.51	.01
.063	1.33	.88	.02	1.22	.65	.02	1.12	.59	.01	1.05	.59	.01
.071	1.29	1.32	.02	1.07	.91	.02	1.03	.78	.02	1.04	.74	.02
.080	2.16	2.79	.05	1.38	1.51	.03	1.21	1.20	.03	1.14	1.02	.02
.089	2.52	3.94	.07	1.67	2.05	.04	1.41	1.60	.04	1.23	1.32	.03
.100	1.76	2.39	.06	1.63	2.17	.05	1.41	1.80	.05	1.27	1.68	.04
.112	3.33	6.83	.14	2.02	3.67	.08	1.73	2.81	.07	1.51	2.35	.06
.125	2.73	5.03	.14	2.11	3.66	.11	1.85	3.63	.10	1.63	3.22	.08
.140	4.28	11.19	.28	2.83	6.68	.18	2.41	5.61	.16	1.95	4.54	.13
.158	12.62	40.58	1.05	5.72	17.24	.48	3.79	10.98	.31	2.48	6.87	.20
.178	6.44	23.62	.68	4.17	14.47	.44	3.47	11.94	.36	2.60	9.10	.27
.200	13.21	54.74	1.76	6.19	25.36	.82	3.94	16.40	.52	2.50	10.17	.33
.224	11.49	53.35	1.93	5.83	26.05	.97	4.24	18.43	.71	2.77	11.32	.45
.250	11.38	59.31	2.37	3.62	18.90	.75	3.11	15.93	.65	2.38	11.60	.49
.280	8.87	51.48	2.32	3.52	21.34	.92	2.40	15.11	.63	1.93	10.54	.50
.320	7.35	49.41	2.51	3.34	22.65	1.14	2.36	14.94	.81	1.82	11.84	.62
.360	4.43	32.65	1.92	2.42	17.40	1.04	2.13	15.74	.91	1.82	13.23	.78
.400	11.76	98.72	6.28	4.35	36.91	2.32	2.71	23.21	1.43	1.86	15.42	.97
.447	4.01	36.28	2.68	2.76	25.76	1.84	1.95	17.82	1.29	1.39	12.72	.91
.500	5.15	55.28	4.29	2.22	24.05	1.85	1.87	18.91	1.55	1.47	14.66	1.21
.560	5.64	67.64	5.90	3.33	39.72	3.48	2.32	27.79	2.42	1.65	18.74	1.70
.630	6.31	82.63	8.36	3.14	43.92	4.15	2.16	30.53	2.85	1.40	21.44	1.81
.710	2.96	43.37	4.99	1.57	23.13	2.64	1.36	20.70	2.29	1.10	17.48	1.83
.800	2.30	38.88	4.92	1.60	28.85	3.41	1.18	21.63	2.51	.93	16.36	1.94
.890	3.13	59.06	8.27	1.83	35.56	4.85	1.28	24.22	3.36	.91	18.79	2.33
1.000	1.87	39.97	6.23	1.41	35.38	4.70	1.12	30.28	3.71	.90	24.68	2.97
1.120	3.29	77.43	13.76	1.64	38.66	6.87	1.23	28.21	5.12	1.02	23.22	4.19
1.250	2.96	78.10	15.46	1.74	48.45	9.04	1.27	37.54	6.58	.95	27.06	4.78
1.400	2.05	60.21	13.43	1.30	38.49	8.48	1.05	32.79	6.80	.78	25.87	4.95
1.580	1.72	58.78	14.30	.87	31.93	7.28	.62	23.93	5.13	.52	20.31	4.16
1.780	.72	26.55	7.64	.42	20.54	4.45	.34	19.56	3.62	.29	18.05	2.96
2.000	.46	20.83	6.15	.31	17.63	4.10	.22	16.85	2.84	.20	15.85	2.55
2.240	.50	23.20	8.29	.25	16.31	4.22	.20	15.87	3.26	.19	15.12	3.03
2.500	.36	20.53	7.61	.25	17.12	5.13	.19	16.39	3.87	.17	15.45	3.48
2.800	.22	19.38	5.65	.20	18.29	5.26	.19	17.02	4.80	.17	15.53	4.24
3.200	.21	19.03	7.09	.19	18.34	6.64	.18	17.47	6.07	.17	16.39	5.31
3.600	.22	18.11	9.68	.15	17.94	6.57	.15	17.60	6.23	.14	16.94	5.64
4.000	.26	24.92	13.63	.20	18.92	10.51	.14	18.01	7.56	.12	17.34	5.84
4.470	.30	30.60	19.92	.19	20.31	12.42	.13	18.72	8.48	.11	17.72	6.87
5.000	.16	22.65	13.50	.14	21.21	11.78	.13	19.39	10.26	.11	17.18	8.63
5.600	.12	18.65	13.07	.11	18.02	11.89	.10	17.16	10.47	.10	15.92	8.73
6.300	.16	20.71	20.69	.10	18.89	12.94	.08	17.57	10.59	.07	15.80	8.96
7.100	.07	17.75	12.45	.06	17.29	10.83	.05	16.61	8.92	.05	15.57	7.87
8.000	.04	14.68	8.19	.03	14.69	6.95	.03	14.62	6.61	.03	14.36	6.46
8.900	.03	12.94	7.42	.02	13.12	5.86	.02	13.31	5.67	.03	13.43	6.01
10.000	.02	12.56	6.55	.02	12.72	6.58	.02	12.89	6.62	.02	13.06	6.61

END

(2−21) ICH, UD-component

RESPONSE SPECTRUM

Station = ICH (Niphon-Gousei-Gomu)
Component = U-D Data type = ACCELERATION (gal)
Date and Time = 1987/12/17,11:08
Sampling interval = 0.01(sec)
Time Length = 60(s)

	Damping = 0.00			Damping = 0.02			Damping = 0.05			Damping = 0.10		
PERIOD (sec)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)	ACCE. (gal)	VELO. (cm/s)	DISP. (cm)
.050	1.20	.41	0.00	1.18	.33	0.00	1.18	.25	0.00	1.16	.19	0.00
.056	1.26	.39	.01	1.19	.34	0.00	1.22	.30	.01	1.21	.25	0.00
.063	1.78	.53	.01	1.46	.41	.01	1.31	.35	.01	1.24	.26	.01
.071	1.93	.82	.01	1.42	.47	.01	1.34	.39	.01	1.29	.32	.01
.080	1.64	.89	.01	1.42	.69	.01	1.25	.46	.01	1.30	.42	.01
.089	2.53	1.56	.03	1.66	.82	.02	1.53	.66	.02	1.47	.56	.02
.100	4.69	3.61	.06	2.17	1.32	.03	1.94	1.01	.03	1.73	.83	.02
.112	3.84	3.35	.06	2.97	2.42	.05	2.42	1.85	.04	1.87	1.26	.03
.125	7.10	7.20	.15	2.59	2.49	.05	2.12	1.92	.04	1.82	1.56	.04
.140	8.79	10.15	.23	3.49	3.89	.09	2.62	2.83	.07	2.02	2.05	.05
.158	8.73	11.29	.29	4.38	5.38	.14	3.08	3.69	.10	2.19	2.48	.07
.178	11.14	16.31	.47	3.65	5.27	.15	2.65	3.89	.11	2.03	2.83	.08
.200	10.85	17.93	.57	3.25	5.41	.17	2.28	3.51	.12	1.59	2.63	.08
.224	5.64	10.24	.37	2.38	4.09	.16	1.78	3.36	.12	1.48	2.49	.10
.250	9.59	19.50	.79	3.38	6.91	.28	2.39	4.96	.20	1.79	3.40	.14
.280	9.16	21.13	.95	4.23	9.71	.44	2.65	6.04	.27	1.87	4.00	.19
.320	9.40	25.13	1.27	3.08	8.43	.42	2.00	5.36	.27	1.53	3.99	.20
.360	2.62	7.55	.45	2.14	5.98	.37	1.72	4.84	.29	1.40	4.01	.23
.400	4.14	13.41	.87	2.40	8.16	.51	1.69	5.92	.35	1.19	4.46	.24
.447	7.53	27.85	1.98	3.44	12.84	.91	2.06	7.80	.54	1.36	4.90	.35
.500	3.60	14.31	1.19	2.64	10.89	.87	1.65	6.90	.54	1.27	5.50	.41
.560	5.12	23.68	2.12	2.37	11.15	.98	1.61	7.65	.66	1.06	5.48	.43
.630	5.09	26.25	2.66	1.87	9.63	.98	1.23	6.23	.64	.94	4.59	.48
.710	2.33	13.45	1.55	1.32	8.36	.87	1.06	6.22	.70	.87	4.63	.56
.800	2.54	16.77	2.14	1.29	8.33	1.09	1.01	6.72	.85	.78	5.47	.64
.890	2.20	16.14	2.30	1.10	7.94	1.14	.66	5.23	.68	.56	5.18	.57
1.000	1.62	13.84	2.14	.88	7.28	1.16	.71	5.82	.93	.57	5.45	.73
1.120	2.02	19.11	3.35	.90	9.19	1.49	.73	6.91	1.19	.57	5.83	.92
1.250	.74	7.79	1.53	.51	6.09	1.05	.48	6.07	.99	.43	5.57	.87
1.400	1.11	13.58	2.87	.66	8.81	1.69	.44	6.43	1.12	.34	5.57	.86
1.580	.42	6.89	1.38	.34	6.14	1.13	.27	5.53	.88	.21	5.09	.66
1.780	.61	8.72	2.54	.34	4.78	1.40	.22	4.45	.92	.18	4.42	.73
2.000	.43	7.08	2.27	.25	4.53	1.32	.21	3.62	1.11	.16	3.74	.83
2.240	.43	8.52	2.82	.21	4.44	1.40	.14	3.96	.90	.13	3.79	.82
2.500	.22	4.98	1.77	.16	4.45	1.31	.15	4.31	1.20	.13	4.14	1.06
2.800	.22	5.16	2.28	.16	4.76	1.63	.15	4.58	1.49	.13	4.35	1.29
3.200	.14	4.90	1.85	.12	4.45	1.64	.12	4.37	1.53	.11	4.24	1.36
3.600	.25	8.18	4.32	.16	5.20	2.81	.10	4.27	1.77	.09	4.00	1.36
4.000	.15	5.40	3.17	.12	5.01	2.53	.09	4.52	1.93	.07	3.91	1.39
4.470	.18	6.83	4.79	.12	5.04	3.17	.09	3.85	2.33	.08	3.50	1.80
5.000	.13	5.66	4.40	.10	4.31	3.20	.08	3.62	2.59	.07	3.24	2.00
5.600	.06	5.05	2.63	.06	4.73	2.34	.05	4.32	2.13	.05	3.80	1.92
6.300	.13	7.43	7.04	.10	4.95	5.00	.07	4.11	3.42	.05	3.80	2.47
7.100	.06	4.48	3.81	.05	4.11	3.47	.05	3.74	3.05	.04	3.52	2.75
8.000	.10	6.24	8.19	.08	5.08	6.50	.06	3.97	5.00	.05	3.64	3.67
8.900	.08	6.57	8.71	.07	5.49	6.95	.05	4.29	5.65	.04	3.62	4.59
10.000	.07	6.08	9.19	.06	5.24	7.91	.05	4.31	6.58	.04	3.75	5.17

END

Table 3. Digitized data. The station code is ICH (Nihon Gosei Gomu) and the accelerograph is SMAC-B_2.

(3−1) NS-component

Station = ICH (Niphon-Gousei-Gomu) PAGE : 1
Component = N-S
Date and Time = 1987/12/17,11:08
Total number of data = 5357
Sampling interval = 0.01(sec)
Scale = 0.01(gal)

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	54	53	53	53	53	52	52	51	97	98
10	72	48	48	45	38	3	2	98	238	187
20	75	13	119	197	205	167	45	-118	-153	-38
30	103	208	221	146	77	91	203	226	151	109
40	90	50	-30	-178	-297	-174	-29	118	389	496
50	466	432	404	408	305	119	-16	-191	-323	-280
60	-214	-162	-34	150	228	134	-34	-95	-106	-97
70	-45	69	182	211	303	395	492	512	307	285
80	164	206	161	-55	-47	-74	-179	-318	-326	-348
90	-233	-25	230	387	521	606	572	434	317	308
100	100	-3	-213	-384	-417	-407	-312	-266	-126	-39
110	140	259	392	422	418	395	323	232	196	82
120	28	86	187	262	279	285	301	298	179	12
130	-57	-29	74	208	243	250	316	294	213	68
140	-74	-175	-238	-207	-152	-7	284	596	771	798
150	755	690	632	554	454	345	134	-148	-230	-234
160	-171	-125	-92	-107	-21	121	363	609	780	735
170	654	623	594	535	404	154	-369	-924	-1217	-1419
180	-1319	-1126	-859	-329	-293	-10	308	681	897	1097
190	1183	1214	1224	1222	1179	725	708	422	59	-121
200	-422	-742	-986	-1181	-1298	-1365	-1431	-1304	-1154	-957
210	-711	-483	-239	212	302	450	674	855	1003	1242
220	1503	1684	1799	1850	1842	1816	1673	1311	875	509
230	250	-140	-898	-1487	-1854	-2263	-2412	-2380	-2230	-2111
240	-1876	-1486	-400	784	1337	1710	1904	2033	2075	1898
250	1589	1312	1091	936	764	659	513	341	65	2
260	-340	-625	-779	-1072	-1276	-1557	-1803	-1637	-1315	-1054
270	-875	-521	-248	93	378	584	782	972	1004	998
280	1013	1138	1308	1559	1589	1291	1110	824	769	482
290	160	-312	-577	-565	-543	-529	-568	-619	-622	-533
300	-354	-67	95	223	315	322	277	184	-20	-255
310	-613	-645	-471	-260	101	467	763	1127	1437	1577
320	1664	1532	1260	756	270	-346	-1067	-1431	-1875	-2130
330	-2283	-2370	-2350	-2055	-1898	-1796	-1485	-1174	-867	-237
340	843	1749	2523	3025	3163	3257	2732	2343	1838	755
350	-63	-803	-1506	-1954	-1926	-1954	-1852	-1555	-1329	-1286
360	-1041	-833	-701	-375	-124	22	-109	-135	-114	156
370	277	659	1065	1083	1300	1291	1278	1184	981	847
380	506	401	383	62	-249	-213	-232	-16	14	75
390	154	303	621	629	497	426	366	351	338	236
400	137	84	70	73	142	359	398	432	434	389
410	270	95	-256	-611	-783	-925	-869	-718	-680	-549
420	-307	-5	121	209	286	274	215	132	83	130
430	181	159	47	-208	-463	-551	-529	-462	-375	-353
440	-312	-193	-132	-235	-415	-418	-294	-220	79	489
450	533	764	943	1041	946	581	234	-229	-572	-941
460	-1367	-1657	-1743	-1719	-1533	-1406	-1141	-817	-333	136
470	604	1020	1244	1270	896	455	124	-249	-360	-190
480	-172	-30	169	321	249	-71	-127	-505	-1060	-1501
490	-1723	-1797	-1687	-1647	-1457	-1282	-818	-609	-238	-151
500	24	263	484	741	882	908	751	682	405	287
510	257	74	-78	-287	-473	-590	-685	-744	-816	-857
520	-857	-863	-775	-558	-194	347	768	883	885	787
530	649	602	554	534	599	689	676	565	480	420
540	411	416	313	143	-54	-92	25	275	745	1268
550	1546	1562	1584	1115	665	81	-705	-1169	-1486	-1528
560	-1135	-883	-374	74	424	700	752	740	522	-254

Station = ICH (Niphon-Gousei-Gomu) PAGE : 2
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
570	-823	-1381	-1972	-2435	-2883	-3105	-3282	-3343	-3337	-3196
580	-3036	-2787	-2655	-2474	-2109	-1973	-1967	-2103	-2279	-2265
590	-2123	-1693	-1136	384	1596	3327	4025	5157	6221	6948
600	7194	7360	7242	6721	5680	4406	3430	2074	999	266
610	-1284	-2618	-3504	-3874	-4269	-4875	-5018	-5001	-4511	-3854
620	-3321	-1729	18	939	1821	2673	3054	3177	2495	1456
630	345	-979	-1983	-3087	-3938	-4468	-4753	-4573	-4032	-2769
640	-1481	-825	-281	176	36	-423	-677	-1281	-1518	-1832
650	-1868	-1453	-975	-364	-322	63	393	788	899	858
660	703	417	162	-115	-1063	-1479	-1812	-2272	-2611	-2493
670	-2176	-2159	-1898	-1593	-900	-897	57	943	2343	3510
680	4308	5135	5250	5076	4739	4377	3771	3150	2561	1832
690	1433	1167	940	773	628	606	947	1270	2143	2849
700	3428	4041	4689	5165	4968	4446	3304	2455	1503	635
710	225	528	1223	2224	2886	3439	4472	5165	5587	5910
720	5726	4668	3303	2384	1291	-68	-2059	-3539	-3963	-4777
730	-5538	-6425	-7161	-7519	-7667	-7492	-6700	-5585	-4785	-4070
740	-3122	-2114	-1321	-161	1471	2181	2848	3199	3419	3386
750	3126	2386	1398	797	447	-724	-1838	-3300	-5980	-8093
760	-8784	-9120	-9450	-9013	-7985	-6684	-5591	-3805	-608	4332
770	7229	7525	7634	7033	6247	5381	4340	3179	2317	1703
780	1780	3061	3619	4608	5688	6076	6221	5802	5003	4048
790	2467	1919	1509	874	470	431	948	1711	1908	1927
800	2035	2131	2216	1985	1419	629	-3	-2377	-6390	-8120
810	-10080	-12639	-13787	-14423	-13957	-13118	-12143	-10811	-8486	-5729
820	-3042	-786	469	847	1218	1736	2282	3025	4457	6111
830	6385	8243	8973	9699	10034	10073	9716	8728	7479	5810
840	3055	829	-263	-1153	-1165	-26	1571	5605	8101	10790
850	11518	11986	11968	11096	9356	6785	3334	-1476	-6755	-9356
860	-10287	-9699	-8182	-5693	-2195	2150	5360	5960	5661	3926
870	518	-3554	-5438	-9142	-12942	-16155	-17258	-18929	-19608	-19450
880	-18581	-16705	-12336	-7244	-2006	2796	6584	8688	9332	9382
890	9233	9356	9727	10429	10598	10588	9813	8426	6554	4272
900	1521	-415	-2968	-4020	-4589	-4869	-4400	-3993	-2751	-1356
910	-466	-154	-469	-1431	-2857	-3904	-4738	-5719	-7149	-7543
920	-7795	-7909	-8012	-7671	-6944	-5941	-4371	-2967	-1237	1412
930	3753	5422	6322	6439	5742	3831	1793	401	-358	-499
940	326	1114	2978	5846	8495	9310	9784	9803	9043	8230
950	7752	7531	7206	6831	5920	5259	4863	4283	3207	1915
960	1226	172	-60	-2926	-4139	-4964	-5659	-5952	-6279	-6529
970	-6718	-6738	-6507	-6263	-5215	-3393	-1779	1093	3258	5922
980	8080	9677	10236	10497	10049	9287	8497	7858	7370	6983
990	6453	5341	3535	1945	-1622	-4906	-11192	-11968	-12790	-16872
1000	-17412	-17261	-15903	-13520	-10476	-7091	-3682	-568	1932	3498
1010	3775	3316	2543	1796	1341	1338	1531	1443	1001	215
1020	-634	-1897	-3901	-4897	-6276	-7111	-7018	-6759	-6401	-5434
1030	-4496	-3758	-3342	-3452	-3728	-3806	-3887	-3679	-2850	-1170
1040	896	1726	4298	5400	6750	7000	7702	8632	9188	9557
1050	9697	9520	9053	8275	7022	4867	2886	1636	472	-115
1060	-462	-561	-961	-1130	-1321	-2047	-2763	-3120	-3273	-2684
1070	-2885	-2149	-391	1120	1982	2308	3100	3571	4159	4245
1080	4604	4760	4466	3847	2757	2015	1172	138	-610	-1753
1090	-2928	-2935	-4536	-5338	-6754	-7760	-7850	-8409	-8771	-8614
1100	-7978	-6955	-5657	-4098	-1585	993	5353	4957	8260	8799
1110	9588	9809	8896	7709	6484	5120	2486	-1470	-4281	-5149
1120	-7199	-6566	-6252	-6077	-5753	-5531	-4819	-4293	-4497	-5026
1130	-5451	-5631	-5317	-4889	-4441	-3951	-3486	-2369	-291	502
1140	1331	3606	4873	6751	8178	8674	9279	9317	8712	7747
1150	6744	6013	5643	5234	4726	4156	3379	2515	1448	-2245
1160	-3788	-5352	-6908	-7938	-9058	-8537	-7552	-6431	-3895	150
1170	3805	5659	7125	7752	8226	8281	7549	6402	5248	4222

Station = ICH (Niphon-Gousei-Gomu) PAGE : 3
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1180	3026	2619	1584	832	615	194	-545	-1312	-2123	-3938
1190	-4922	-5593	-5673	-6156	-6616	-7132	-7413	-7667	-7791	-7478
1200	-6542	-5339	-4644	-3785	-1327	1859	4615	6171	7444	8283
1210	8851	8967	8231	6982	5362	3268	1556	-237	-1800	-7544
1220	-7502	-7872	-8316	-8567	-8308	-8026	-7419	-6370	-5673	-4981
1230	-4383	-3315	-1248	1173	2327	4052	5581	6105	7309	7162
1240	6441	5668	4758	2988	158	-1955	-2444	-2615	-2123	-1335
1250	-546	1158	1944	3157	3353	3570	3435	3007	2520	2089
1260	1580	1209	491	-145	-436	-652	-512	-324	-142	240
1270	981	1217	1435	1394	1290	1217	1154	1086	930	904
1280	1166	1338	1373	1188	1067	718	-126	-1038	-1760	-2711
1290	-3519	-4423	-4589	-4714	-4452	-4201	-3888	-3133	-2641	-1928
1300	-180	1665	2954	3890	4496	4744	4998	5077	4519	4071
1310	3591	2672	1665	895	3	-983	-1925	-2261	-2188	-2018
1320	-1998	-2049	-2212	-2410	-2617	-2845	-3108	-3477	-3502	-3265
1330	-3096	-2444	-1088	606	1716	2666	3780	4817	5840	5819
1340	5165	4223	3198	1887	750	-2142	-3565	-3877	-4169	-4339
1350	-4256	-3668	-3066	-2775	-2135	-1655	-1242	-1276	-968	-763
1360	-678	-666	-386	37	682	1218	1808	2490	2793	2816
1370	2345	1868	1402	913	396	273	637	879	963	943
1380	506	-130	-746	-1487	-2027	-2248	-2339	-2345	-2262	-2152
1390	-2233	-2374	-2614	-2836	-2920	-2894	-2584	-2086	-1651	-1148
1400	150	1711	2861	3778	3926	3422	2553	1909	1405	831
1410	509	54	-176	-193	512	1329	2527	3726	4483	5237
1420	5563	5646	5428	4831	3867	2564	1248	568	-402	-1361
1430	-2287	-2864	-2985	-3133	-3409	-3832	-4068	-4254	-4301	-4071
1440	-3522	-2854	-2333	-1964	-309	457	1892	2939	3194	3686
1450	4013	4472	4622	4743	4626	4017	3064	1808	1189	451
1460	-164	-1129	-2462	-3399	-4021	-4360	-4462	-4149	-3730	-3164
1470	-1987	-163	1062	1541	1750	1809	1478	1142	832	302
1480	-254	-974	-1575	-1704	-1975	-2609	-2999	-3293	-3742	-4084
1490	-4351	-4421	-4458	-4500	-4481	-4234	-3928	-3556	-2929	-1902
1500	-1010	-342	765	1237	1377	1866	2468	3205	3824	4068
1510	4257	4682	5044	5147	4715	3850	2829	1869	1000	-76
1520	-1679	-2879	-3476	-3593	-3698	-3751	-3551	-3067	-2737	-2387
1530	-1796	-1295	297	1809	2386	3389	3945	4345	4767	4992
1540	5087	5213	5106	4707	4254	4051	3597	2818	585	-797
1550	-1838	-2051	-2402	-3081	-3670	-3770	-3815	-3432	-3199	-2858
1560	-2510	-2371	-1173	196	1984	2823	3449	4078	3978	3314
1570	2157	1298	548	-1040	-2450	-3282	-3502	-3682	-3741	-3342
1580	-2645	-1929	-832	232	689	894	720	226	-431	-1063
1590	-1534	-2260	-2734	-2882	-3022	-3266	-3460	-3575	-3480	-3083
1600	-2930	-2810	-2351	-1962	-1550	-1212	-628	165	810	1473
1610	2306	2978	3174	3881	4871	5465	5851	5730	5324	4193
1620	3034	2510	1713	772	-240	-686	-1586	-2348	-3102	-3315
1630	-3631	-3673	-3594	-3296	-3195	-2932	-2909	-2783	-2607	-2432
1640	-2303	-2364	-2256	-1765	-1061	-616	-314	282	1688	2677
1650	3146	3387	3062	2306	1678	802	-384	-1641	-2334	-2528
1660	-2539	-2265	-1729	-1187	-562	318	1244	1890	2007	2001
1670	2112	2374	2847	3379	3805	3778	4018	4403	4564	4552
1680	4158	3364	2379	1294	140	-1233	-2670	-3696	-4143	-4465
1690	-4938	-5104	-4707	-4107	-3259	-2354	-791	1126	1375	1714
1700	1727	1471	1142	812	546	374	124	151	293	348
1710	404	359	305	239	124	-269	-1158	-1933	-2517	-3192
1720	-3492	-3556	-3401	-3246	-2931	-2432	-1025	226	403	1326
1730	1553	1785	1780	1607	1434	1324	1214	1296	1723	2030
1740	2393	3041	3768	4097	4144	4161	3834	3012	2416	2402
1750	977	-116	-989	-1626	-1724	-1665	-1601	-1537	-1508	-1552
1760	-1606	-1550	-1371	-1125	-401	81	319	700	1094	1558
1770	1980	2098	2269	2340	1911	1516	1118	408	-300	-1123
1780	-2380	-3128	-3264	-3437	-3744	-3686	-3330	-3142	-3006	-2596

Station = ICH (Niphon-Gousei-Gomu) PAGE : 4
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1790	-2161	-1839	-1284	-705	-188	507	1245	2100	2758	3237
1800	3569	3866	4076	4127	3901	3442	2908	2322	1644	1072
1810	271	-575	-951	-1146	-1378	-1357	-1300	-1332	-1389	-1531
1820	-1844	-2134	-2584	-2612	-2890	-3104	-3277	-3315	-3133	-2821
1830	-2852	-2337	-1847	-1467	-843	-197	500	789	1089	1619
1840	2118	2786	3013	3027	3278	3822	4356	4478	4478	4445
1850	4070	3527	2059	1484	906	-248	-1199	-1987	-2543	-2788
1860	-2724	-2458	-2114	-1815	-1596	-1159	-764	-561	-465	-546
1870	-636	-872	-1319	-1731	-2021	-2172	-2206	-2093	-1904	-1658
1880	-1230	-878	-603	-90	439	625	746	465	270	129
1890	115	212	470	911	1439	1787	2129	2439	2738	2528
1900	2157	2090	1731	1400	547	86	-7	284	786	1342
1910	1689	1955	2084	2068	2048	1933	1803	1709	1511	1373
1920	1080	935	852	687	579	554	720	686	796	954
1930	1093	1138	1189	1255	1233	1080	827	644	349	-83
1940	-676	-1130	-1702	-2120	-2517	-2719	-2739	-2736	-2753	-2769
1950	-2422	-2218	-2084	-1768	-1335	-1020	-745	-585	-536	-504
1960	-557	-681	-836	-965	-1041	-1155	-1274	-1358	-1340	-1232
1970	-1179	-1152	-1208	-1292	-1407	-1610	-1761	-1818	-1578	-1221
1980	-1149	-764	-135	417	1147	1680	2068	2492	2743	3016
1990	3213	3251	3232	2963	2540	2294	1674	1074	794	439
2000	148	96	300	764	1091	1360	1903	2332	2466	2550
2010	2460	2233	2084	1824	1699	1671	1321	1062	862	208
2020	-406	-1748	-2818	-3578	-4387	-4810	-5111	-5004	-4650	-4415
2030	-4060	-3389	-2459	-1202	196	1226	1706	2128	2260	2342
2040	2450	2509	2436	2411	2378	2369	2332	2271	2178	2070
2050	2000	1984	1918	1747	1622	1600	1524	1415	1368	1364
2060	1318	1238	1198	1165	1072	888	622	186	-361	-906
2070	-1618	-2306	-3008	-3637	-3792	-4042	-4544	-4919	-5295	-5397
2080	-5454	-5076	-4972	-4496	-4118	-3659	-3107	-2472	-1279	-16
2090	1451	2387	3128	3801	4339	4481	4534	4547	4335	3928
2100	3295	2555	2372	1722	1231	588	227	25	17	197
2110	337	354	340	292	-146	-273	-613	-955	-1280	-1507
2120	-1628	-1729	-1765	-1767	-1768	-1716	-1445	-1248	-1112	-857
2130	-373	-51	242	590	833	987	1025	922	801	443
2140	-19	-376	-761	-972	-981	-651	-493	-581	-301	-134
2150	-84	229	515	625	789	1037	1195	1335	1447	1455
2160	1306	1046	835	704	472	75	-349	-713	-852	-847
2170	-816	-585	-348	-332	-14	162	581	970	1266	1470
2180	1525	1462	1286	1042	873	550	270	-195	-557	-830
2190	-929	-903	-774	-732	-674	-557	-445	-382	-483	-597
2200	-627	-625	-612	-625	-530	-409	-306	-40	420	536
2210	723	883	1121	1349	1575	1648	1643	1604	1456	1250
2220	1075	766	333	-111	-503	-1079	-1829	-2620	-3580	-3876
2230	-3968	-4015	-4015	-3995	-3630	-3327	-2776	-2268	-1492	-916
2240	-574	-432	-489	-548	-565	-538	-324	-75	122	355
2250	515	531	485	441	160	-230	-610	-1074	-1298	-1403
2260	-1500	-1545	-1541	-1541	-1541	-1531	-1494	-1422	-1240	-1072
2270	-1089	-784	-497	-561	-294	-45	336	700	826	1089
2280	1117	1111	969	891	852	714	560	473	341	109
2290	52	41	71	255	469	643	605	662	714	712
2300	667	583	516	476	439	358	296	267	266	253
2310	417	619	675	863	1213	1609	1915	2322	2711	3132
2320	3751	4177	4257	4388	4507	4402	4118	3846	3494	3302
2330	2848	2113	937	37	-937	-1784	-2120	-2341	-2427	-2420
2340	-2398	-2375	-2362	-2239	-2258	-2236	-2010	-1698	-1522	-1372
2350	-1106	-924	-825	-792	-813	-869	-1019	-1163	-1187	-1204
2360	-1246	-1226	-1044	-791	-707	-555	-173	220	663	1013
2370	1172	1078	1026	900	357	-97	-312	-565	-879	-1092
2380	-1125	-1245	-1202	-926	-615	-308	-12	75	70	43
2390	-174	-211	-321	-557	-616	-732	-737	-695	-434	-509

Station = ICH (Niphon-Gousei-Gomu) PAGE : 5
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2400	-293	-103	494	1099	1620	2046	2403	2613	3061	3267
2410	3265	3255	3017	3016	2563	1909	1535	860	283	160
2420	-134	-585	-745	-750	-689	-517	-317	-138	44	174
2430	215	217	218	202	170	143	65	-147	-319	-338
2440	-385	-489	-798	-1151	-1342	-1448	-1439	-1411	-1303	-1001
2450	-766	-700	-550	-475	-192	-3	275	625	702	901
2460	1091	1222	1387	1536	1630	1700	1697	1693	1727	1766
2470	1774	1771	1769	1826	1801	1790	1755	1636	1356	1302
2480	978	578	257	-185	-560	-796	-1144	-1278	-1322	-1464
2490	-1699	-1778	-1788	-1740	-1484	-1354	-1215	-1060	-280	570
2500	893	1233	1592	2004	2042	2145	2155	1754	1471	1193
2510	785	488	193	65	47	294	558	529	598	817
2520	961	1072	1108	1063	905	667	397	144	-47	-337
2530	-684	-875	-915	-900	-805	-676	-618	-609	-549	-418
2540	-350	-355	-369	-410	-453	-495	-550	-590	-637	-730
2550	-807	-821	-789	-718	-685	-599	-504	-396	-277	-230
2560	-218	-186	-181	-196	-262	-334	-368	-392	-399	-391
2570	-338	-272	-133	9	154	124	347	441	463	467
2580	476	466	429	259	-138	-943	-1199	-1656	-2498	-2951
2590	-3411	-3776	-3987	-4163	-4148	-4025	-3629	-3176	-2766	-2327
2600	-2308	-2133	-1532	-881	-455	-311	-414	-562	-708	-799
2610	-912	-953	-999	-1021	-1013	-823	-696	-546	-347	-138
2620	142	510	669	725	936	1306	1644	1882	2243	2596
2630	2832	3095	3320	3435	3459	3390	3199	2896	2567	2316
2640	2002	1652	1329	901	427	130	114	191	385	481
2650	778	1067	1435	1763	1858	1848	1752	1374	1023	951
2660	531	266	-145	-884	-1294	-1659	-1827	-2109	-2166	-2234
2670	-2255	-2249	-2207	-2088	-1929	-1697	-1459	-1223	-1049	-754
2680	-502	-244	-128	70	295	461	463	560	567	565
2690	451	359	94	-46	-271	-564	-685	-716	-760	-779
2700	-818	-996	-1113	-1184	-1260	-1307	-1321	-1237	-1025	-822
2710	-623	-264	213	726	1207	1775	2037	2356	2708	2899
2720	2935	2824	2523	2236	1981	1677	1348	1100	899	728
2730	667	692	788	903	1009	1105	1146	1168	1176	1165
2740	1131	1057	881	623	458	312	6	-187	-342	-771
2750	-1081	-1326	-1451	-1533	-1591	-1658	-1719	-1700	-1610	-1399
2760	-1256	-1129	-945	-729	-607	-590	-180	-25	-13	78
2770	168	278	422	562	674	873	941	1219	1591	1994
2780	2247	2241	2333	2364	2428	2453	2446	2350	2188	1824
2790	1701	1432	1331	1103	678	117	-409	-682	-734	-712
2800	-662	-465	-213	-107	34	285	342	357	514	729
2810	782	860	939	952	1002	1066	1048	968	869	822
2820	807	769	638	510	456	276	20	-148	-313	-500
2830	-607	-634	-670	-832	-957	-943	-1007	-1162	-1391	-1771
2840	-1957	-1990	-2163	-2361	-2441	-2359	-2275	-2277	-2235	-2030
2850	-1796	-1677	-1399	-1051	-849	-709	-703	-656	-420	-385
2860	-200	89	333	409	609	652	660	680	794	886
2870	884	820	735	726	777	791	1084	1079	1386	1446
2880	1704	1961	2215	2533	2671	2855	2923	2916	2915	2748
2890	2490	2032	1632	1601	1164	372	-211	-1540	-1820	-2114
2900	-2455	-2691	-2877	-2923	-2688	-2480	-2390	-2237	-2126	-1895
2910	-1677	-1551	-1369	-1118	-865	-767	-743	-692	-710	-759
2920	-839	-908	-894	-776	-488	-304	-299	-168	-1	108
2930	260	447	505	551	574	559	483	365	282	248
2940	253	211	81	-49	-203	-216	-277	-368	-440	-446
2950	-432	-351	-237	-110	-31	10	48	83	78	20
2960	-12	-24	-87	-216	-239	-296	-354	-353	-354	-323
2970	-254	-107	9	247	331	502	688	835	971	1107
2980	1204	1369	1638	1792	1881	1922	2049	2118	2122	2119
2990	2037	2023	1988	1927	1881	1836	1810	1748	1626	1526
3000	1479	1475	1473	1488	1227	859	243	-312	-726	-1223

Station = ICH (Niphon-Gousei-Gomu) PAGE : 6
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3010	-1669	-2134	-2407	-2617	-2863	-3007	-3044	-2979	-2686	-2271
3020	-1935	-1555	-1088	-838	-734	-627	-663	-680	-747	-904
3030	-1052	-1159	-1280	-1364	-1363	-1344	-1244	-1002	-1018	-922
3040	-722	-679	-467	-315	-173	-39	-46	-44	-59	-179
3050	-310	-445	-561	-590	-640	-711	-738	-739	-726	-507
3060	-463	-338	20	162	624	638	907	1099	1166	1134
3070	1120	982	748	615	428	322	131	120	267	355
3080	571	679	937	1246	1429	1684	1846	1967	2170	2356
3090	2393	2330	2083	1848	1527	939	737	612	327	77
3100	-13	56	142	297	394	407	525	632	647	618
3110	537	435	206	-2	-154	-376	-639	-987	-1329	-1592
3120	-1596	-1623	-1702	-1770	-1814	-1802	-1750	-1649	-1441	-1283
3130	-1174	-1002	-768	-589	-376	-101	-118	-132	-198	-291
3140	-325	-363	-355	-252	-156	-119	-114	-93	-46	6
3150	4	0	-21	-61	-175	-299	-371	-423	-450	-436
3160	-377	-300	-211	-119	108	303	484	735	843	936
3170	1040	1073	1094	1099	1084	1078	1054	1025	1006	976
3180	942	921	912	918	959	1010	1048	1089	1119	1141
3190	1090	873	761	591	320	-49	-325	-464	-525	-557
3200	-611	-652	-552	-411	-274	-60	161	366	569	668
3210	647	601	480	310	189	84	-32	-139	-256	-300
3220	-329	-349	-378	-407	-433	-443	-417	-296	-170	105
3230	467	572	816	1138	1399	1728	1950	2064	2103	2224
3240	2101	1844	1624	1392	1429	1290	417	75	-271	-508
3250	-872	-1393	-1493	-1495	-1603	-1695	-1750	-1723	-1591	-1600
3260	-1533	-1533	-1516	-1255	-1223	-1105	-938	-637	-378	-154
3270	144	355	400	398	353	272	64	-74	-379	-552
3280	-742	-1032	-1263	-1394	-1587	-1651	-1646	-1448	-1375	-1276
3290	-1147	-1022	-892	-744	-515	-326	-92	118	209	247
3300	244	243	238	224	157	65	-24	-131	-191	-226
3310	-255	-246	-198	-81	71	180	261	467	632	669
3320	692	747	807	835	830	776	684	615	547	477
3330	483	507	566	611	691	816	853	884	1006	1075
3340	1137	1172	1189	1187	1120	849	751	574	536	271
3350	48	-246	-414	-509	-498	-204	-101	121	456	668
3360	909	1127	1637	1807	2030	2085	2086	2035	1798	1617
3370	1410	906	756	735	515	116	-161	-255	-265	-258
3380	-212	-158	-86	38	151	181	175	167	155	105
3390	16	-167	-360	-499	-615	-657	-805	-966	-980	-943
3400	-883	-857	-855	-854	-879	-955	-1034	-1104	-1171	-1197
3410	-1199	-1188	-1158	-1066	-927	-871	-796	-673	-576	-550
3420	-364	-287	-209	-64	174	146	214	230	244	276
3430	350	420	542	569	564	583	633	690	735	793
3440	806	821	827	822	696	670	556	409	309	8
3450	-137	-420	-484	-784	-813	-851	-1049	-1103	-1158	-1279
3460	-1346	-1508	-1532	-1551	-1628	-1682	-1784	-1804	-1838	-1880
3470	-1886	-1892	-1856	-1780	-1621	-1523	-1352	-1085	-784	-524
3480	-257	122	496	878	1006	1178	1465	1603	1670	1644
3490	1559	1459	1391	1381	1383	1386	1387	1429	1554	1631
3500	1628	1626	1624	1624	1611	1561	1463	1375	1294	1157
3510	1030	893	809	730	548	442	292	179	85	56
3520	45	52	141	170	206	253	309	340	387	359
3530	353	310	307	331	358	402	512	620	735	758
3540	859	916	943	857	789	564	414	157	-111	-454
3550	-749	-844	-977	-1038	-1067	-1026	-972	-858	-812	-747
3560	-714	-688	-649	-594	-640	-759	-875	-923	-967	-1034
3570	-1105	-1150	-1180	-1202	-1223	-1240	-1253	-1142	-916	-805
3580	-588	-237	81	126	233	477	635	792	873	910
3590	935	924	914	880	829	812	774	712	649	596
3600	570	556	528	474	480	436	318	204	108	61
3610	5	17	113	126	138	186	279	373	457	474

Station = ICH (Niphon-Gousei-Gomu) PAGE : 7
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3620	576	620	624	583	399	240	96	-98	-304	-433
3630	-541	-545	-543	-486	-481	-495	-506	-510	-513	-595
3640	-644	-874	-1003	-1106	-1350	-1640	-1779	-1952	-1980	-2033
3650	-2145	-2217	-2225	-2035	-2034	-1839	-1718	-1604	-1359	-1199
3660	-1110	-1016	-969	-847	-746	-675	-651	-698	-767	-783
3670	-802	-829	-826	-720	-643	-573	-413	-158	-13	255
3680	484	596	799	1005	1179	1236	1232	1235	1201	1148
3690	1142	1127	1071	1008	942	903	891	888	903	924
3700	958	1017	1063	1092	1083	1022	942	861	770	725
3710	579	484	439	391	378	392	432	495	586	661
3720	742	821	894	943	964	978	977	912	779	633
3730	579	551	386	242	211	210	229	393	508	723
3740	1090	1153	1311	1597	1767	1857	1949	2003	1966	1837
3750	1698	1650	1644	1540	1289	1008	685	410	181	-2
3760	-202	-413	-470	-465	-692	-903	-988	-1061	-1156	-1216
3770	-1240	-1248	-1246	-1220	-1189	-1167	-1155	-1155	-1175	-1276
3780	-1340	-1385	-1472	-1543	-1606	-1640	-1643	-1568	-1420	-1315
3790	-1244	-1117	-979	-813	-693	-705	-679	-634	-636	-616
3800	-598	-575	-488	-418	-294	-211	-93	-70	17	39
3810	83	102	157	213	176	110	104	114	189	265
3820	398	420	544	599	698	724	768	758	674	637
3830	645	648	644	647	659	663	662	658	677	698
3840	701	694	661	639	565	552	440	315	140	-49
3850	-177	-292	-387	-526	-565	-572	-542	-472	-367	-271
3860	-217	-206	-184	-152	-119	-94	-86	-116	-241	-378
3870	-463	-521	-585	-633	-648	-565	-399	-160	129	324
3880	484	641	822	962	1029	1112	1152	1155	1151	1135
3890	1089	1024	923	833	756	559	437	337	273	185
3900	105	-43	-187	-331	-382	-372	-291	-190	-91	-11
3910	95	191	249	284	302	300	295	279	245	210
3920	172	142	54	-26	-118	-121	-416	-486	-726	-839
3930	-1015	-1250	-1370	-1377	-1433	-1424	-1316	-1311	-1232	-1138
3940	-1073	-998	-972	-965	-937	-881	-835	-762	-750	-658
3950	-616	-302	-355	-258	-127	-29	87	220	394	542
3960	611	659	708	773	830	855	823	768	760	775
3970	721	632	569	526	431	198	39	40	-33	-168
3980	-295	-410	-544	-696	-732	-734	-750	-777	-779	-776
3990	-749	-688	-671	-675	-643	-568	-459	-203	-49	79
4000	215	464	769	1096	1289	1422	1573	1507	1406	1400
4010	1310	1229	1159	1065	1043	996	942	920	1003	1070
4020	1073	1072	1077	1083	1083	1026	907	822	630	590
4030	596	372	341	290	269	252	230	182	159	126
4040	66	17	1	-27	-42	-47	-49	-51	-54	-60
4050	71	168	300	397	411	351	285	167	65	-66
4060	-267	-403	-441	-436	-458	-530	-597	-736	-878	-957
4070	-1075	-1186	-1261	-1281	-1285	-1261	-1226	-1129	-979	-778
4080	-514	-451	-273	-158	-119	-115	-59	62	169	211
4090	223	257	274	283	286	284	279	198	-24	-141
4100	-286	-560	-760	-945	-1073	-1156	-1170	-1200	-1246	-1251
4110	-1189	-1099	-1036	-855	-766	-609	-595	-462	-364	-256
4120	-61	30	29	154	314	340	411	462	573	698
4130	855	877	872	877	960	1140	1274	1331	1397	1485
4140	1537	1589	1608	1610	1618	1495	1308	1065	804	731
4150	685	480	263	115	63	41	-1	-114	-302	-436
4160	-460	-537	-619	-610	-611	-610	-553	-494	-505	-497
4170	-481	-475	-479	-479	-533	-650	-706	-778	-813	-889
4180	-1077	-1197	-1367	-1538	-1633	-1650	-1594	-1545	-1492	-1401
4190	-1280	-1042	-797	-539	-274	-18	210	368	469	660
4200	681	770	944	937	954	957	1003	1026	1027	1050
4210	1081	1119	1147	1173	1276	1279	1261	1204	1196	1244
4220	1293	1325	1365	1375	1322	1108	1017	813	472	228

Station = ICH (Niphon-Gousei-Gomu) PAGE : 8
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4230	-23	-397	-510	-707	-1055	-1137	-1123	-1133	-1167	-1200
4240	-1225	-1250	-1261	-1266	-1236	-1186	-1041	-955	-959	-958
4250	-902	-802	-679	-514	-427	-118	158	247	466	685
4260	835	864	844	944	1098	1198	1404	1579	1640	1655
4270	1639	1596	1569	1472	1326	1314	1255	1239	1111	764
4280	636	418	297	303	233	44	21	10	9	1
4290	-19	-28	-26	-30	-64	-63	-74	-91	-90	-91
4300	-100	-103	-103	-103	-102	-104	-127	-204	-225	-301
4310	-394	-527	-606	-615	-748	-840	-942	-953	-1110	-1161
4320	-1368	-1393	-1546	-1647	-1744	-1876	-1894	-1890	-1894	-1897
4330	-1897	-1915	-1588	-1490	-1461	-1397	-1305	-1187	-981	-804
4340	-634	-517	-420	-294	-244	-201	-109	82	200	211
4350	270	361	505	618	686	727	717	701	689	656
4360	617	586	503	448	371	299	241	124	109	59
4370	25	35	135	238	326	391	443	516	623	756
4380	745	757	795	827	869	916	952	994	1028	1089
4390	1174	1248	1400	1439	1504	1583	1640	1652	1750	1811
4400	1832	1833	1829	1793	1632	1547	1337	1013	834	677
4410	291	250	-32	-527	-820	-1086	-1252	-1452	-1639	-1875
4420	-1956	-2139	-2483	-2658	-2791	-2813	-2915	-2984	-3014	-2852
4430	-2809	-2638	-2405	-2385	-2283	-2212	-2129	-2104	-2048	-1937
4440	-1755	-1703	-1659	-1597	-1524	-1451	-1329	-1172	-1027	-865
4450	-704	-533	-340	-152	34	203	270	280	347	392
4460	394	394	371	353	334	329	297	227	166	111
4470	64	66	48	31	64	114	125	153	204	276
4480	362	420	457	498	519	523	515	503	465	431
4490	394	354	317	284	269	240	216	199	190	190
4500	180	155	142	160	233	291	312	381	434	513
4510	574	604	611	633	645	525	321	165	68	-80
4520	-159	-283	-406	-594	-693	-699	-710	-753	-757	-701
4530	-630	-563	-510	-470	-476	-556	-664	-700	-701	-722
4540	-775	-851	-914	-951	-902	-750	-559	-477	-363	-185
4550	-42	86	144	280	334	404	506	580	606	562
4560	428	327	297	283	255	217	151	71	-10	-51
4570	-137	-250	-345	-450	-512	-509	-525	-574	-598	-688
4580	-727	-722	-723	-751	-792	-808	-863	-928	-1034	-1068
4590	-1108	-1121	-1117	-1120	-1069	-922	-833	-755	-664	-552
4600	-442	-421	-303	-269	-200	-151	-107	1	77	109
4610	123	131	141	139	180	214	215	171	120	102
4620	101	102	138	239	350	381	373	382	468	567
4630	654	707	740	807	891	955	969	994	1041	1099
4640	1152	1217	1294	1345	1365	1358	1373	1413	1440	1427
4650	1369	1243	1125	1066	959	815	627	456	183	-236
4660	-762	-1015	-1160	-1105	-1127	-1166	-1292	-1516	-1589	-1712
4670	-1738	-1711	-1594	-1495	-1362	-1260	-1073	-994	-892	-803
4680	-689	-659	-575	-501	-433	-390	-381	-294	-218	-102
4690	-100	-61	-34	-25	24	40	31	28	68	62
4700	-42	-104	-116	-116	-122	-128	-129	-135	-160	-191
4710	-204	-215	-217	-216	-169	-135	-134	-139	-116	-70
4720	25	64	65	82	102	169	223	252	313	341
4730	355	379	385	372	344	351	381	412	439	476
4740	511	509	513	517	524	533	509	442	372	307
4750	180	87	74	15	-32	-67	-80	-81	-102	-156
4760	-219	-244	-296	-346	-381	-418	-445	-458	-456	-452
4770	-426	-386	-364	-359	-354	-342	-337	-328	-310	-272
4780	-229	-216	-149	-88	-56	-20	9	70	147	226
4790	320	352	329	231	160	86	35	-1	-8	-23
4800	-39	-43	-39	-10	20	54	81	112	135	158
4810	172	203	225	241	252	266	299	316	312	308
4820	304	289	269	240	210	154	113	61	-51	-123
4830	-153	-222	-283	-340	-393	-502	-654	-687	-689	-747

Station = ICH (Niphon-Gousei-Gomu) PAGE : 9
Component = N-S

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4840	-818	-835	-847	-854	-854	-836	-797	-810	-847	-849
4850	-859	-859	-852	-837	-835	-836	-838	-844	-850	-867
4860	-887	-909	-926	-943	-958	-947	-899	-846	-674	-467
4870	-296	-146	-141	51	132	305	392	490	626	724
4880	803	940	980	1000	1000	1000	1000	998	983	980
4890	976	973	961	895	848	833	829	825	843	930
4900	1033	1070	1087	1098	1117	1126	1043	983	878	828
4910	726	608	538	529	450	370	294	142	36	-46
4920	-152	-178	-294	-463	-570	-639	-688	-732	-748	-702
4930	-582	-499	-456	-402	-377	-379	-379	-379	-363	-319
4940	-288	-268	-279	-361	-425	-510	-561	-591	-609	-639
4950	-647	-655	-632	-560	-543	-496	-431	-378	-319	-241
4960	-170	-95	-31	102	120	130	313	369	467	638
4970	767	951	1053	1068	1070	1069	1060	999	772	646
4980	489	381	370	298	182	103	16	-43	-45	-194
4990	-289	-338	-455	-529	-577	-613	-661	-784	-843	-882
5000	-880	-833	-809	-818	-877	-914	-917	-920	-937	-905
5010	-829	-755	-733	-742	-706	-655	-637	-626	-541	-353
5020	-224	-228	-155	-41	20	115	230	337	453	586
5030	681	764	826	910	983	993	1012	1015	959	826
5040	735	665	582	536	462	372	287	212	130	53
5050	-23	-47	67	95	142	197	202	225	231	291
5060	301	314	315	320	331	323	228	79	-113	-205
5070	-303	-309	-422	-481	-576	-641	-533	-479	-323	-111
5080	32	188	205	259	339	422	491	531	543	564
5090	577	583	554	512	449	383	347	330	328	315
5100	261	216	199	200	211	222	226	225	224	217
5110	204	173	144	116	76	25	2	-21	-87	-138
5120	-227	-328	-350	-383	-441	-525	-596	-608	-644	-696
5130	-716	-714	-713	-708	-695	-672	-652	-635	-634	-645
5140	-662	-679	-688	-691	-696	-707	-713	-716	-711	-701
5150	-677	-650	-622	-577	-533	-495	-470	-445	-382	-382
5160	-376	-348	-313	-308	-290	-267	-220	-140	-84	-4
5170	41	74	89	108	154	206	256	271	281	283
5180	283	291	302	303	301	300	299	298	298	296
5190	296	296	296	296	296	296	295	294	294	294
5200	296	306	324	348	372	389	398	399	390	283
5210	161	15	-103	-104	-137	-220	-308	-404	-478	-496
5220	-496	-480	-452	-429	-380	-310	-233	-151	-77	-69
5230	-49	-9	27	49	49	50	52	40	-21	-86
5240	-109	-177	-216	-257	-313	-319	-380	-451	-510	-545
5250	-543	-529	-483	-479	-479	-479	-477	-464	-461	-460
5260	-477	-544	-622	-711	-856	-910	-955	-996	-1023	-1051
5270	-1078	-1068	-977	-842	-814	-684	-663	-667	-658	-568
5280	-478	-282	-176	-55	135	177	269	367	404	429
5290	453	507	554	592	611	624	641	679	701	708
5300	717	733	749	759	763	764	764	747	694	641
5310	622	613	592	571	544	503	455	403	374	337
5320	266	160	20	-48	-151	-262	-333	-436	-462	-477
5330	-492	-515	-531	-536	-506	-433	-337	-273	-276	-276
5340	-273	-267	-263	-255	-263	-306	-349	-403	-434	-448
5350	-539	-590	-628	-683	-697	-701	-735			

END

(3−2) EW-component

Station = ICH (Niphon-Gousei-Gomu)
Component = E-W
Date and Time = 1987/12/17,11:08
Total number of data = 5357
Sampling interval = 0.01(sec)
Scale = 0.01(gal)

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	118	172	196	195	190	187	187	188	180	179
10	219	313	319	117	-31	8	156	246	182	39
20	0	117	220	260	269	202	143	119	144	195
30	223	233	181	93	60	132	203	268	348	334
40	212	136	61	-43	-88	-25	79	128	202	345
50	433	387	294	238	196	119	42	35	75	130
60	188	194	128	102	102	110	40	-76	24	148
70	271	266	254	257	275	281	296	331	374	398
80	411	442	420	221	-32	-111	-201	-224	-216	-138
90	-35	80	179	366	444	467	468	424	345	252
100	176	137	133	88	40	51	124	192	227	260
110	265	262	234	253	271	273	309	371	413	419
120	400	334	300	220	160	68	-31	-114	-154	-171
130	-188	-146	-39	83	184	251	274	282	291	291
140	283	275	272	261	251	253	251	279	342	392
150	343	199	92	13	-40	-34	-63	-175	-299	-335
160	-266	-170	-102	-58	-45	-9	71	181	218	137
170	51	-41	-105	-144	-170	-200	-267	-308	-272	-103
180	51	229	292	507	573	698	786	865	911	858
190	793	682	602	508	409	142	-125	-390	-578	-687
200	-677	-607	-573	-564	-492	-456	-438	-407	-342	-278
210	-170	-64	84	297	539	796	960	1069	1092	1087
220	1091	1039	938	808	729	620	477	393	200	-69
230	-445	-784	-1026	-1270	-1488	-1562	-1525	-1452	-1341	-1172
240	-916	-678	-346	221	706	959	1059	1064	1065	1004
250	872	733	575	456	345	204	135	94	65	62
260	98	249	432	518	459	285	132	42	-14	-58
270	-50	19	70	88	133	185	241	368	561	705
280	690	610	475	322	-9	-295	-674	-992	-1083	-849
290	-636	-435	0	246	550	600	524	379	103	-234
300	-553	-634	-728	-876	-1103	-1377	-1675	-1774	-1739	-1559
310	-1473	-1247	-993	-560	-199	279	582	826	994	1057
320	1071	1067	795	460	-32	-449	-756	-1067	-1341	-1448
330	-1459	-1401	-1175	-887	-484	-46	184	325	403	441
340	490	508	541	553	577	588	573	452	241	92
350	-19	-118	-177	-108	37	81	174	260	322	431
360	499	556	719	725	805	865	808	576	467	44
370	-377	-566	-586	-522	-388	-23	477	842	880	1235
380	1503	1501	1221	1064	730	435	193	-111	-309	-384
390	-495	-666	-692	-687	-555	-391	-240	-100	145	216
400	188	-7	-150	-215	-288	-345	-265	-172	-93	-60
410	-57	-115	-342	-555	-682	-854	-912	-897	-740	-521
420	-252	-103	-143	-212	-265	-294	-307	-250	-165	-51
430	25	10	-62	-138	-147	-147	-150	-140	-98	-57
440	-68	-135	-227	-327	-420	-511	-504	-512	-442	-209
450	47	357	645	812	841	752	513	257	-93	-352
460	-533	-569	-459	-260	29	133	189	174	51	-143
470	-310	-355	-429	-610	-717	-931	-961	-971	-919	-818
480	-722	-524	-417	-293	-241	-105	-61	-51	-148	-295
490	-383	-506	-713	-824	-837	-802	-582	-327	-153	-26
500	67	129	136	101	71	103	237	358	442	487
510	499	470	434	422	499	598	540	396	50	-322
520	-569	-776	-935	-1003	-836	-589	-278	258	750	953
530	837	574	281	-36	-286	-506	-676	-766	-711	-596
540	-556	-526	-400	-296	-134	434	973	1508	1881	2181
550	2144	1732	1365	899	160	-483	-788	-995	-1099	-1092
560	-954	-879	-813	-816	-966	-1032	-1104	-1205	-1200	-812

Station = ICH (Niphon-Gousei-Gomu)
Component = E-W

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
570	-539	-55	204	527	779	42	-577	-1127	-2018	-2689
580	-3406	-4221	-4760	-4884	-4872	-4539	-3677	-2980	-2103	-1099
590	-482	699	1418	1945	2504	2885	3278	3724	4239	4590
600	4900	5350	5427	5403	5300	5124	4910	4609	4160	3754
610	3017	2698	1943	751	-181	-921	-2214	-2873	-3845	-4336
620	-4543	-4899	-4881	-4622	-4217	-3269	-2679	-2001	-767	412
630	1454	2614	3511	4091	4436	4189	3737	3321	2414	1450
640	1059	668	389	594	1041	1459	2027	2474	2908	3296
650	4121	4755	5470	5850	5914	5730	5392	4992	4369	3876
660	3413	2611	1935	1425	1141	751	513	159	-140	-532
670	-836	-1213	-1541	-1901	-1816	-1581	-1306	-917	-239	300
680	863	1049	988	587	232	-171	-629	-1345	-2027	-2677
690	-3299	-3818	-4442	-5077	-5372	-5469	-5497	-5606	-5677	-5786
700	-6012	-6404	-6765	-6951	-7081	-7026	-6819	-6436	-5855	-5037
710	-3860	-2726	-1731	-651	426	1102	1265	1294	1456	1853
720	2301	2804	3700	5143	6828	7739	8706	8850	8611	8058
730	7002	5669	4524	2695	839	-482	-1416	-1821	-1599	-669
740	755	2179	2730	2907	3062	2973	2793	2738	2755	2445
750	2073	1767	1635	1077	271	-352	-1075	-1408	-1817	-1942
760	-1909	-1708	-1205	-793	-82	894	1706	2657	3542	4085
770	4614	5172	5552	5711	5573	5250	4592	3209	1423	204
780	-548	-1040	-914	-578	-200	199	336	93	-436	-915
790	-1177	-1426	-1489	-1405	-1310	-1292	-1288	-1373	-1527	-1736
800	-2075	-2384	-2515	-2459	-2438	-2743	-3246	-4118	-5076	-5971
810	-6437	-6556	-6421	-5909	-5454	-4915	-4713	-4678	-5218	-5874
820	-6706	-7276	-7917	-8568	-7871	-6967	-6407	-5893	-5093	-3610
830	-2579	-2357	-2444	-2574	-2364	-1584	-669	1080	3903	5758
840	8647	10339	12134	12946	13177	12749	11832	10669	8779	5844
850	1144	-3659	-5534	-7029	-7860	-7849	-7108	-5980	-4120	-1769
860	731	3420	4354	4816	4547	2952	211	-2763	-5322	-9005
870	-10835	-11647	-11769	-11378	-10132	-7695	-4845	-2119	-348	3831
880	5522	6804	6903	6562	5940	5173	4141	2669	1840	1322
890	1259	1744	2249	2793	3727	4687	5044	5109	4444	3573
900	2862	2151	1732	2173	3443	5021	6785	9105	9602	9723
910	9145	7649	4785	-611	-3333	-5641	-6754	-7118	-6722	-5653
920	-4327	-2664	-904	945	3682	5266	6012	6092	4980	2130
930	-710	-5526	-7097	-8385	-9069	-9187	-8647	-7703	-6512	-5174
940	-2800	-423	643	1492	1668	929	-692	-2892	-5269	-6610
950	-8082	-9431	-9925	-9627	-9122	-8195	-6637	-3644	-755	580
960	5210	7219	8704	9235	8875	8131	6973	3940	764	-666
970	-2795	-4677	-4932	-5160	-4947	-4530	-4128	-3807	-3669	-3678
980	-4184	-4842	-5373	-5995	-6308	-6549	-6276	-5568	-4499	-2929
990	-1266	557	1947	3692	4140	5127	5915	6444	6849	7152
1000	7261	7420	7858	8059	8238	8452	8380	8097	7252	6293
1010	5334	3690	2290	610	-1200	-2640	-4187	-4904	-5038	-4720
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1030	2143	986	-534	-2338	-3922	-5514	-5995	-6261	-5608	-4394
1040	-2480	-236	1417	3685	4959	5418	5576	5144	4303	2846
1050	566	-1217	-2742	-4508	-5661	-6181	-6283	-5822	-5389	-4735
1060	-3587	-2356	-1224	-207	496	891	1269	1704	1906	1745
1070	1329	1105	808	532	395	366	395	795	1413	1895
1080	2210	2738	3112	3282	3460	3529	3660	3652	3727	4027
1090	4101	4470	4928	5750	6343	6853	7047	6792	6416	6090
1100	5156	3044	747	-1029	-2361	-3213	-3779	-3982	-3628	-3236
1110	-2937	-2740	-2936	-3454	-4038	-4427	-4758	-4804	-4442	-3614
1120	-2626	-996	1409	3102	4191	4672	4973	4779	4214	3282
1130	2045	818	-377	-1391	-1767	-2131	-2296	-2350	-2379	-2408
1140	-2542	-2613	-2895	-3378	-3858	-4471	-5184	-5588	-5898	-6081
1150	-5885	-5278	-4488	-3562	-2325	-808	1295	2724	3806	4127
1160	4090	3527	2972	1836	42	-1557	-2572	-3159	-3362	-2839
1170	-1877	-852	271	2017	3116	3756	4331	4564	4608	4344

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Component = E-W

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
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1190	-2430	-1970	-1369	-931	-645	-538	-683	-850	-913	-868
1200	-724	-174	934	2164	3260	4572	5700	6529	6720	6465
1210	5217	3790	2096	-119	-2153	-3117	-3672	-3931	-4046	-3745
1220	-3101	-2518	-1887	-1023	236	2608	3674	4827	5560	6038
1230	5935	5146	4501	3121	885	-447	-1145	-1487	-1618	-1359
1240	-964	-792	-708	-983	-1498	-1606	-2264	-3379	-3939	-4194
1250	-4267	-4074	-3600	-2925	-2485	-2250	-2111	-2106	-2109	-1991
1260	-1851	-1498	-1348	-1284	-1379	-1943	-2449	-2934	-3497	-3871
1270	-4044	-3563	-2805	-1841	-1054	89	1391	2262	2571	2771
1280	2850	2975	3017	3083	3248	3374	3430	3419	3188	2854
1290	2328	1745	1273	921	434	39	-24	42	172	170
1300	-38	-361	-749	-1350	-1955	-3115	-4660	-5697	-6509	-6827
1310	-7047	-6971	-6513	-5888	-4912	-3890	-2626	-1138	2042	4758
1320	6021	7157	8041	8487	8147	7224	5876	4670	2965	670
1330	-1316	-2172	-2930	-3303	-3334	-3274	-3051	-2915	-2817	-2419
1340	-1881	-1264	-1132	-358	2127	3246	4473	6062	7275	7398
1350	7678	6910	6003	4443	2064	-635	-2882	-5436	-6558	-7024
1360	-7265	-6726	-5718	-4200	-1935	356	2122	3158	4423	4789
1370	5120	4795	3795	2740	1766	528	-469	-1434	-2003	-2127
1380	-1808	-1234	-665	-49	510	858	1063	1266	1470	1741
1390	2119	2610	3218	3398	3637	3529	2996	1948	736	-1105
1400	-3585	-5404	-7381	-8519	-9243	-9431	-9123	-8131	-6519	-4322
1410	-1387	1408	3398	5141	6385	6767	6404	5613	4880	3367
1420	1046	-1208	-2866	-4583	-5772	-6365	-6468	-6232	-5846	-4325
1430	-2585	-1316	1290	2822	4868	6377	7914	8973	9395	9709
1440	9755	9239	8356	7225	5966	4053	1630	-398	-1913	-4173
1450	-5755	-6661	-7163	-7452	-7427	-7001	-6177	-5354	-4331	-2535
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1480	212	275	195	30	-140	-262	-116	46	302	866
1490	1432	2186	2768	2946	2968	2734	2311	1857	1285	446
1500	-700	-1553	-2011	-2381	-2595	-2636	-2478	-1887	-569	428
1510	1274	2169	2908	3296	3465	3263	2751	2220	1565	835
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1530	-2013	-994	-87	668	1050	1333	1610	1591	1357	1023
1540	659	348	14	-10	126	317	607	1026	1407	1966
1550	2011	2388	2744	3051	3393	3484	3508	3446	2831	1912
1560	696	-677	-1858	-2700	-3142	-3236	-2717	-1828	-779	388
1570	1540	2252	2712	2779	2313	1708	729	-734	-1960	-2984
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1590	-2590	-1533	-512	640	1580	2548	3428	4190	4795	5130
1600	5131	4912	4422	3880	3260	2001	131	-1249	-2077	-2527
1610	-2519	-2328	-2063	-1187	-468	392	1240	1619	1678	1412
1620	1077	429	-232	-1025	-2176	-3253	-3844	-3924	-3675	-3201
1630	-2369	-1980	-1066	-12	1106	2061	2904	3554	4055	4249
1640	4382	4294	3958	3710	3275	2680	1966	870	87	-636
1650	-1464	-2446	-3266	-3877	-4223	-4160	-3609	-2835	-1612	-461
1660	474	1163	1656	1950	1839	1699	1334	902	264	-360
1670	-723	-1278	-1965	-2438	-2889	-3297	-3435	-3432	-3220	-2735
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1700	470	41	-608	-1262	-1944	-2868	-3523	-4733	-5402	-6088
1710	-6312	-6424	-6402	-6221	-5953	-5279	-4474	-3650	-2841	-2123
1720	-1159	-415	415	1234	1891	2034	2177	2213	2037	1673
1730	1146	498	-251	-708	-1030	-1079	-744	-343	392	819
1740	1639	2105	2763	2929	2935	2710	2513	2140	1861	1439
1750	644	-194	-999	-1710	-2690	-3268	-4067	-4382	-4349	-4042
1760	-3574	-2842	-2037	-1119	-283	401	1278	1969	2154	2316
1770	2428	2221	1749	1210	790	260	-561	-1179	-1527	-1800
1780	-1745	-1503	-1351	-1233	-1094	-1002	-1090	-1333	-1570	-1991

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Component = E-W

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1790	-2328	-2654	-2877	-2987	-3092	-3146	-3187	-3153	-3080	-2963
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1810	5702	6379	7116	7419	7481	7341	7030	6564	6113	5667
1820	4943	4292	3741	2697	1764	1357	769	-66	-647	-1566
1830	-2132	-2941	-4316	-4726	-4987	-5215	-5265	-5204	-4816	-4035
1840	-3412	-2997	-2278	-1882	-1523	-970	-490	-218	43	745
1850	1344	2043	2629	3373	3848	4018	4198	4252	4184	3901
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1870	2000	1552	1163	845	512	304	-17	-353	-819	-1177
1880	-1214	-1304	-1414	-1306	-964	-624	-124	604	1126	1629
1890	2001	2026	1829	1467	1116	694	247	-1077	-1995	-2794
1900	-3425	-3919	-4128	-4188	-4094	-3783	-3312	-2818	-2329	-1634
1910	-946	-550	-59	13	187	478	507	614	643	685
1920	726	894	1000	1039	927	568	550	178	-229	-729
1930	-963	-825	-721	-337	254	817	1311	1597	1725	1622
1940	1383	1199	924	572	123	-278	-702	-838	-882	-1003
1950	-1001	-881	-906	-939	-957	-1046	-1252	-1467	-1760	-1943
1960	-1969	-2025	-1998	-1750	-1388	-862	-36	959	1689	2127
1970	2605	2798	2583	2106	1503	736	-435	-1694	-2587	-3319
1980	-3744	-3919	-3889	-3518	-2767	-1708	-562	595	1846	2881
1990	3553	3985	4252	4398	4413	4210	3996	3700	3151	2698
2000	2231	1675	918	548	284	166	195	394	696	735
2010	1272	2008	2551	3050	3195	3361	3364	3309	3030	2952
2020	2764	2405	1782	1017	543	255	-7	-101	-38	44
2030	156	255	344	308	99	-199	-443	-1030	-1804	-3149
2040	-4545	-4988	-5378	-5472	-5577	-5466	-5056	-4728	-4196	-3377
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2070	290	508	1051	1525	1825	2158	2353	2461	2392	2087
2080	1624	838	-253	-742	-1208	-1618	-2217	-2734	-2811	-3042
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2100	-567	52	631	1043	1145	1386	1466	1356	1209	1146
2110	1103	1096	1115	1237	1400	1780	2233	2521	2751	3155
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2130	227	-328	-615	-923	-1080	-1074	-1058	-1040	-1111	-1198
2140	-1215	-1303	-1453	-1593	-1704	-1754	-1757	-1724	-1541	-1380
2150	-1248	-999	-789	-724	-699	-616	-468	-319	-189	-11
2160	211	344	357	403	479	396	190	111	43	-307
2170	-518	-771	-1014	-1165	-1243	-1203	-1099	-930	-621	-285
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2210	1121	733	63	-335	-579	-964	-1258	-1662	-2459	-2966
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2270	-266	-416	-443	-358	-323	-95	507	844	956	1183
2280	1404	1468	1539	1602	1608	1482	1361	1150	1020	572
2290	313	-210	-293	-786	-1165	-1526	-1769	-1912	-1987	-1848
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2310	810	977	1040	1100	1275	1374	1284	1260	1213	1122
2320	1028	885	738	547	401	285	175	193	307	428
2330	498	541	622	501	294	52	-379	-882	-1214	-1814
2340	-2245	-2406	-2447	-2451	-2202	-1910	-1588	-1181	-664	-47
2350	379	666	855	773	518	214	-215	-530	-733	-972
2360	-1090	-1156	-1118	-1016	-933	-711	-527	-288	-91	16
2370	24	-18	-46	-138	-256	-369	-420	-490	-530	-434
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2390	2111	2079	1761	1698	1352	991	651	344	201	139

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Component = E-W

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2400	53	22	65	-159	-35	-84	-134	-299	-488	-558
2410	-652	-809	-917	-854	-713	-534	-422	-318	-69	235
2420	548	940	1325	1612	2019	2327	2431	2449	2423	2401
2430	2281	1945	1929	1499	834	119	-512	-1263	-2171	-2620
2440	-3194	-3700	-4099	-4291	-4364	-4422	-4363	-4041	-3920	-3741
2450	-3350	-3214	-2904	-2343	-1944	-1652	-1272	-827	-311	567
2460	1255	1829	2512	2906	3248	3579	3773	3859	3873	3705
2470	3327	3023	2749	2317	1935	1311	1215	1030	893	643
2480	645	747	760	750	773	805	850	863	841	948
2490	1025	1164	1206	1276	1324	1301	1235	1017	943	747
2500	456	70	-143	-321	-442	-536	-597	-583	-440	-357
2510	-306	-253	-220	-272	-416	-501	-622	-733	-880	-1050
2520	-1094	-1169	-1313	-1626	-1938	-2221	-2596	-2880	-3014	-3428
2530	-3619	-3646	-3615	-3476	-3169	-2783	-2341	-1800	-1004	-41
2540	852	1726	2388	2863	3113	3108	3031	2796	2510	1711
2550	680	271	-342	-1084	-1412	-1761	-2162	-2386	-2398	-2274
2560	-1959	-1478	-1048	-533	-109	304	504	823	782	724
2570	662	583	506	451	532	607	513	566	626	632
2580	613	580	552	551	573	626	710	738	1094	1366
2590	1854	1733	1970	2153	2217	2249	2265	2239	2220	2171
2600	2113	2062	2033	1975	1960	1970	1916	1875	1798	1703
2610	1497	1486	1395	1288	1294	1433	1507	1687	1864	2076
2620	2294	2453	2431	2210	1853	1680	1021	229	-261	-929
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2660	-1835	-1469	-992	-616	-518	-317	-379	-482	-548	-837
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2680	-1351	-1219	-1130	-963	-661	-326	-127	209	446	547
2690	653	764	799	738	676	520	350	-49	-500	-721
2700	-763	-781	-762	-630	-349	35	480	885	1235	1415
2710	1466	1457	1374	1249	1128	1035	931	815	747	727
2720	819	937	994	1072	1133	1142	1122	1092	1054	939
2730	791	664	542	489	444	360	293	270	263	246
2740	240	241	210	118	33	7	-79	-192	-280	-318
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2770	2839	2702	2683	2567	2537	2503	1969	1772	1343	1035
2780	817	573	290	-34	-372	-685	-987	-1262	-1410	-1605
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2820	553	571	555	540	526	416	173	74	4	-188
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2860	-753	-288	-19	149	476	789	970	1116	1242	1367
2870	1352	997	992	898	691	623	546	523	536	617
2880	822	931	1050	1250	1395	1566	1729	1909	1955	1981
2890	1996	1996	1870	1659	1572	1465	1397	1304	1228	1182
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2920	352	31	-168	-266	-164	7	179	387	529	954
2930	1511	1980	2197	2331	2436	2449	2180	1737	1504	1229
2940	942	399	-255	-719	-1359	-1767	-2036	-2262	-2457	-2545
2950	-2682	-2713	-2668	-2551	-2368	-2138	-1662	-1285	-1001	-681
2960	-374	-46	62	122	-15	-351	-418	-947	-1248	-1563
2970	-2265	-2771	-3135	-3427	-3612	-3686	-3662	-3505	-3364	-3227
2980	-2952	-2745	-2451	-2042	-1761	-1494	-1271	-992	-911	-851
2990	-727	-504	-392	-172	-96	-35	108	192	220	304
3000	366	432	550	822	872	887	1080	1166	1156	1176

Station = ICH (Niphon-Gousei-Gomu) PAGE : 6
Component = E-W

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3010	1354	1465	1472	1480	1465	1525	1614	1698	1820	1887
3020	1881	1874	1839	1732	1639	1527	1391	1292	1153	1010
3030	834	626	354	254	-177	-427	-679	-880	-1122	-1233
3040	-1301	-1348	-1337	-1228	-1050	-862	-453	7	360	921
3050	1220	1570	2034	2349	2463	2575	2681	2708	2706	2608
3060	2435	2347	2047	1815	1576	1487	1210	709	478	268
3070	149	143	-174	-494	-747	-938	-1159	-1358	-1582	-1648
3080	-1623	-1759	-1813	-2010	-2028	-2023	-2080	-2195	-2265	-2343
3090	-2445	-2556	-2632	-2681	-2750	-2779	-2748	-2652	-2597	-2513
3100	-2384	-2133	-2045	-1825	-1436	-841	-161	291	827	1459
3110	1877	2213	2639	2801	2693	2662	2742	2547	2285	2200
3120	1827	1368	1152	863	634	496	412	348	400	470
3130	469	457	417	358	242	64	45	-211	-434	-454
3140	-640	-768	-959	-1184	-1174	-1305	-1244	-1311	-1370	-1394
3150	-1394	-1393	-1366	-1195	-1063	-903	-593	-118	135	917
3160	1594	1985	1985	2066	2228	2235	2077	1899	1609	1326
3170	760	219	-217	-654	-825	-844	-814	-741	-616	-517
3180	-414	-358	-280	-168	-136	-233	-429	-561	-690	-902
3190	-1139	-1370	-1583	-1707	-1829	-1893	-1905	-1765	-1587	-1462
3200	-1230	-834	-480	-120	213	558	862	1018	1172	1304
3210	1381	1397	1390	1336	1302	1242	1096	1071	1085	996
3220	965	994	1103	1213	1320	1358	1393	1460	1544	1656
3230	1736	1758	1687	1580	1445	1244	1021	882	661	450
3240	353	401	538	640	657	731	843	943	1010	1055
3250	1056	1010	914	801	711	619	500	357	-168	-47
3260	-307	-599	-879	-1170	-1427	-1425	-1574	-1709	-1774	-1841
3270	-1859	-1895	-1917	-1888	-1849	-1837	-1902	-1980	-2062	-2097
3280	-2143	-2180	-2190	-2166	-2122	-2063	-1989	-1921	-1826	-1726
3290	-1545	-1343	-1204	-1020	-665	-432	-247	84	327	493
3300	685	805	835	813	772	682	567	498	430	337
3310	228	161	138	97	95	27	-106	-102	-119	-191
3320	-282	-317	-350	-367	-384	-360	-260	-161	-3	165
3330	408	630	873	1328	1660	1866	1904	2129	2154	2211
3340	2219	2190	2064	1877	1777	1489	1308	1065	794	496
3350	297	212	103	75	4	-120	-244	-318	-413	-476
3360	-548	-627	-638	-651	-622	-538	-464	-373	-318	-199
3370	-2	434	487	636	769	883	1011	1096	1132	1160
3380	1135	1078	1014	917	807	703	566	368	223	-24
3390	-451	-855	-1167	-1381	-1632	-1925	-2133	-2189	-2220	-2314
3400	-2361	-2292	-2214	-2195	-2156	-2083	-1968	-1828	-1704	-1573
3410	-1476	-1440	-1353	-1153	-921	-592	-287	-148	104	321
3420	533	549	597	736	779	871	973	1086	1172	1236
3430	1384	1540	1705	1743	1739	1731	1696	1608	1627	1354
3440	1020	709	660	224	-20	-239	-505	-792	-1000	-1202
3450	-1274	-1381	-1547	-1586	-1775	-1857	-1922	-1990	-2072	-2077
3460	-2075	-2067	-1985	-1950	-1911	-1806	-1707	-1539	-1394	-1123
3470	-771	-633	-468	-228	-23	132	277	355	544	783
3480	878	925	1046	1302	1516	1704	1927	2075	2242	2383
3490	2428	2299	2187	1957	1757	1554	1138	654	194	-135
3500	-274	-376	-496	-535	-599	-675	-716	-734	-734	-726
3510	-673	-616	-642	-682	-626	-517	-424	-343	-230	-266
3520	-227	-197	-170	-113	-43	-35	-19	62	104	178
3530	293	293	377	498	583	608	671	759	819	842
3540	861	830	747	703	654	612	547	430	415	322
3550	287	288	269	176	66	37	12	48	114	130
3560	146	164	178	193	214	228	185	166	131	31
3570	0	-90	-152	-283	-425	-557	-674	-836	-1138	-1455
3580	-1675	-1850	-2043	-2214	-2382	-2516	-2547	-2544	-2501	-2387
3590	-2188	-1940	-1609	-1183	-774	-412	11	381	697	1128
3600	1391	1470	1463	1425	1292	1197	1198	1069	915	850
3610	776	636	598	625	668	777	952	1023	1030	1177

Station = ICH (Niphon-Gousei-Gomu) PAGE : 7
Component = E-W

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3620	1204	1264	1315	1345	1313	1179	1031	1053	911	797
3630	570	311	43	-47	-244	-328	-573	-897	-918	-1092
3640	-1043	-1013	-969	-921	-805	-725	-519	-420	-213	0
3650	48	47	15	-187	-171	-378	-528	-739	-918	-1176
3660	-1269	-1319	-1288	-1223	-1149	-1047	-951	-866	-662	-507
3670	-97	282	396	506	590	599	598	601	576	520
3680	440	367	307	263	205	101	-9	-78	-111	-145
3690	-170	-148	-114	-111	-98	-58	-22	45	198	279
3700	362	551	712	750	814	1028	1240	1364	1482	1471
3710	1473	1478	1478	1463	1385	1249	1093	1058	959	783
3720	387	173	-157	-579	-843	-1064	-1318	-1503	-1582	-1655
3730	-1652	-1600	-1574	-1495	-1361	-1226	-1214	-1151	-1034	-897
3740	-780	-660	-598	-416	-291	-194	-113	-81	10	107
3750	125	136	143	161	271	345	499	679	791	929
3760	947	1057	1296	1497	1543	1437	1352	1244	1222	1058
3770	949	926	798	741	693	617	586	560	480	355
3780	281	143	26	48	51	56	11	-83	-197	-301
3790	-316	-349	-413	-432	-435	-406	-312	-237	-216	-207
3800	-165	-105	-37	54	99	110	128	157	180	257
3810	324	343	416	464	488	473	344	166	129	138
3820	179	-135	-134	-285	-333	-426	-614	-785	-782	-888
3830	-995	-999	-1070	-1224	-1381	-1547	-1610	-1664	-1671	-1669
3840	-1641	-1556	-1405	-1231	-1182	-1009	-888	-725	-630	-542
3850	-359	-302	-261	-237	-250	-238	-248	-287	-343	-386
3860	-394	-399	-321	-280	-225	-110	-46	71	155	220
3870	387	563	541	557	664	806	996	1112	1207	1247
3880	1294	1349	1362	1349	1299	1255	1262	1269	1262	1247
3890	1213	1172	1152	1158	1121	1036	965	924	925	924
3900	870	754	701	687	684	625	542	481	362	354
3910	372	230	20	22	-17	-36	-16	86	91	109
3920	128	152	146	168	101	7	39	-8	-190	-220
3930	-425	-596	-799	-901	-929	-1149	-1367	-1669	-1678	-1767
3940	-1845	-1913	-1933	-1841	-1725	-1692	-1658	-1513	-1345	-1260
3950	-1110	-1028	-876	-688	-571	-374	-251	-176	-98	41
3960	160	182	192	210	163	86	72	46	-10	-50
3970	-71	-72	-48	48	191	274	429	580	555	572
3980	623	733	825	836	831	794	667	527	417	282
3990	135	203	76	-31	-158	-244	-260	-299	-331	-408
4000	-468	-488	-511	-504	-453	-411	-417	-457	-466	-457
4010	-450	-458	-492	-498	-572	-569	-569	-582	-565	-561
4020	-534	-510	-498	-446	-393	-298	-195	-122	28	166
4030	249	373	473	626	782	849	900	931	963	900
4040	791	712	532	479	436	341	195	120	75	23
4050	-2	-23	-66	-96	-105	-80	5	40	134	206
4060	194	181	283	424	505	570	622	689	731	745
4070	772	797	834	903	952	999	1058	1124	1225	1282
4080	1293	1300	1259	1155	1033	941	866	785	659	529
4090	368	267	120	40	34	-13	-39	-81	-119	-125
4100	-100	-66	41	114	252	249	252	265	247	210
4110	140	-57	-97	-359	-328	-587	-820	-985	-1077	-1120
4120	-1132	-1128	-1063	-840	-817	-741	-567	-491	-282	-100
4130	127	244	380	438	399	338	311	161	41	-28
4140	-82	-134	-191	-212	-217	-154	-47	-7	61	151
4150	278	401	530	628	705	740	735	724	694	548
4160	431	382	297	232	199	185	146	79	35	29
4170	19	-1	-40	-51	-46	-36	-36	-40	-58	-79
4180	-87	-112	-153	-171	-168	-165	-158	-153	-139	-128
4190	-114	-101	-109	-136	-154	-228	-323	-320	-348	-422
4200	-469	-486	-478	-479	-495	-542	-651	-650	-650	-735
4210	-745	-853	-901	-1027	-1056	-1054	-1144	-1189	-1192	-1184
4220	-1147	-1030	-1007	-1000	-929	-794	-717	-710	-651	-566

Station = ICH (Niphon-Gousei-Gomu) PAGE : 8
Component = E-W

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4230	-473	-430	-354	-262	-241	-247	-265	-242	-225	-224
4240	-201	-218	-256	-258	-230	-205	-138	-89	61	132
4250	149	242	346	444	532	585	618	638	645	656
4260	656	631	601	584	577	575	588	623	662	714
4270	768	831	864	870	860	831	805	745	714	611
4280	461	366	306	218	127	157	162	168	150	114
4290	115	98	72	46	16	-1	-42	-80	-127	-139
4300	-139	-126	-69	113	134	293	372	490	655	756
4310	866	900	900	900	891	800	706	605	535	486
4320	412	335	300	295	256	210	188	169	161	181
4330	233	270	323	351	359	366	376	392	404	401
4340	377	346	354	368	364	365	370	373	377	348
4350	314	270	162	39	-97	-179	-224	-297	-360	-493
4360	-592	-590	-606	-645	-699	-777	-874	-910	-989	-1061
4370	-1139	-1196	-1295	-1360	-1351	-1365	-1417	-1486	-1581	-1644
4380	-1695	-1689	-1698	-1733	-1746	-1750	-1767	-1783	-1742	-1670
4390	-1639	-1518	-1501	-1485	-1319	-1262	-1227	-1222	-1001	-862
4400	-712	-605	-405	-198	-27	5	117	347	602	619
4410	684	748	818	897	971	1034	1044	1130	1209	1271
4420	1275	1302	1379	1415	1426	1409	1350	1304	1277	1251
4430	1227	1213	1195	1179	1174	1172	1180	1217	1271	1302
4440	1317	1316	1260	1185	1156	1110	1036	958	835	747
4450	653	512	457	375	242	178	96	4	-63	-127
4460	-196	-240	-290	-328	-322	-318	-299	-268	-279	-326
4470	-349	-316	-217	-198	-183	-142	-83	10	76	143
4480	269	361	402	556	662	772	774	780	831	845
4490	846	797	759	735	700	614	532	474	453	445
4500	406	384	301	263	192	97	75	-134	-182	-197
4510	-342	-386	-498	-562	-666	-776	-862	-890	-909	-940
4520	-959	-933	-886	-857	-800	-760	-719	-688	-685	-683
4530	-673	-632	-547	-509	-419	-307	-151	-59	-36	9
4540	71	173	249	326	426	501	593	705	797	838
4550	880	975	1078	1165	1188	1137	1019	907	814	667
4560	457	134	82	-139	-266	-408	-415	-523	-685	-714
4570	-715	-703	-646	-600	-585	-545	-456	-366	-313	-231
4580	-203	-198	-197	-215	-252	-298	-327	-339	-345	-347
4590	-375	-333	-268	-218	-201	-140	-70	-45	-29	1
4600	26	52	81	98	18	9	25	-4	-31	-55
4610	-61	-59	-58	-66	-112	-162	-219	-266	-258	-252
4620	-276	-355	-394	-403	-417	-435	-390	-285	-243	-218
4630	-191	-170	-154	-132	-100	-74	-41	-13	5	14
4640	31	35	15	-8	-61	-106	-116	-129	-156	-171
4650	-202	-250	-292	-315	-317	-306	-272	-227	-181	-154
4660	-91	-31	5	61	101	103	136	149	184	226
4670	265	302	307	256	194	147	100	9	-13	-42
4680	-93	-148	-182	-190	-164	-101	-7	41	134	122
4690	165	250	363	387	407	402	374	295	243	206
4700	158	115	94	87	159	218	283	330	352	431
4710	561	648	782	872	887	902	906	975	1021	1027
4720	1033	1033	1031	1031	967	878	804	751	682	618
4730	559	487	336	242	154	70	41	-47	-138	-244
4740	-290	-362	-494	-527	-579	-640	-638	-637	-635	-633
4750	-625	-558	-474	-449	-400	-384	-382	-347	-282	-236
4760	-157	-122	-90	-35	-42	-41	-23	23	43	71
4770	194	241	245	253	300	337	385	438	499	548
4780	489	358	288	138	61	-32	-146	-202	-440	-550
4790	-651	-734	-813	-871	-937	-989	-1005	-1031	-1042	-1028
4800	-963	-944	-942	-915	-881	-869	-846	-836	-863	-921
4810	-941	-939	-938	-892	-827	-861	-887	-833	-741	-570
4820	-408	-275	-146	-38	1	91	180	281	390	424
4830	435	451	471	471	465	464	454	449	469	474

Station = ICH (Niphon-Gousei-Gomu) PAGE : 9
Component = E-W

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4840	427	355	302	265	256	234	212	223	258	317
4850	377	429	482	537	607	641	662	697	741	793
4860	822	841	847	807	736	644	606	588	500	349
4870	357	358	288	130	92	142	139	55	-135	-144
4880	-221	-248	-348	-455	-605	-715	-795	-872	-935	-976
4890	-984	-916	-873	-717	-540	-525	-391	-187	-49	189
4900	306	500	556	629	680	682	721	764	782	796
4910	785	774	774	769	757	678	574	484	433	407
4920	356	312	306	277	195	117	93	6	-72	-108
4930	-194	-281	-380	-415	-438	-501	-548	-531	-470	-439
4940	-423	-376	-246	-53	32	62	210	321	428	664
4950	890	1004	1059	1121	1210	1240	1255	1255	1252	1239
4960	1209	1149	1035	960	968	917	833	745	631	457
4970	567	478	362	236	173	157	70	56	39	22
4980	-1	-23	-143	-129	-58	-108	-205	-234	-262	-310
4990	-319	-323	-340	-381	-455	-498	-534	-556	-565	-575
5000	-584	-586	-587	-587	-594	-501	-436	-435	-436	-402
5010	-361	-346	-342	-305	-240	-211	-161	-110	-75	-55
5020	-20	42	75	108	168	231	258	270	303	337
5030	349	348	364	400	428	436	436	435	440	448
5040	446	445	441	414	345	286	242	169	99	-51
5050	-87	-235	-331	-403	-562	-706	-792	-809	-866	-933
5060	-986	-1010	-1039	-1063	-1069	-1061	-998	-986	-984	-930
5070	-888	-882	-817	-747	-679	-589	-538	-508	-450	-421
5080	-384	-314	-280	-119	-85	12	97	156	237	462
5090	523	542	538	587	657	752	781	790	826	844
5100	840	833	823	784	764	759	726	683	655	644
5110	618	589	591	610	667	700	710	736	744	745
5120	732	697	667	654	636	622	586	491	422	408
5130	345	244	166	24	-57	-113	-131	-134	-85	11
5140	22	68	144	224	278	305	277	288	285	273
5150	262	251	214	199	172	133	126	120	101	90
5160	74	73	72	76	134	196	209	208	209	208
5170	208	209	210	202	158	92	19	-64	-153	-182
5180	-207	-251	-300	-330	-339	-340	-311	-248	-184	-100
5190	-32	25	71	83	135	171	180	182	185	122
5200	38	-33	-104	-142	-188	-229	-239	-256	-283	-299
5210	-305	-289	-277	-251	-197	-140	-95	-85	-84	-104
5220	-149	-217	-306	-371	-430	-476	-540	-582	-598	-639
5230	-664	-688	-698	-700	-684	-637	-585	-504	-453	-412
5240	-372	-192	-96	14	85	150	247	340	431	772
5250	930	986	899	995	1057	1094	1160	1161	1138	1175
5260	1121	1066	1042	984	926	856	790	752	728	684
5270	649	592	568	568	563	564	573	550	547	550
5280	545	503	430	346	232	201	-70	-166	-250	-394
5290	-477	-558	-693	-788	-865	-923	-961	-996	-1011	-983
5300	-914	-837	-759	-639	-565	-525	-484	-466	-427	-391
5310	-367	-353	-362	-350	-339	-372	-400	-421	-475	-524
5320	-555	-562	-573	-602	-639	-685	-729	-746	-754	-753
5330	-761	-790	-826	-860	-863	-874	-901	-902	-903	-905
5340	-900	-866	-800	-713	-625	-528	-389	-303	-312	-266
5350	-217	-132	-39	111	211	278	332			

END

(3−3) UD-component

Station = ICH (Niphon-Gousei-Gomu)
Component = U-D
Date and Time = 1987/12/17,11:08
Total number of data = 5357
Sampling interval = 0.01(sec)
Scale = 0.01(gal)

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	95	-241	-408	49	257	-24	-653	-1023	962	1654
10	814	60	-498	85	-74	-337	-582	-280	504	1087
20	1382	1716	1696	1354	592	-220	-1079	-1733	-2328	-2544
30	-2200	-1463	-768	51	711	1074	1369	1568	1442	1168
40	961	762	572	469	440	372	309	162	-573	-1314
50	-1502	-1134	-426	244	806	1192	1498	1758	1926	1918
60	1725	1456	1183	376	-584	-1123	-1706	-2142	-2409	-2232
70	-1668	-978	419	2268	2365	2092	1637	906	150	-404
80	-1117	-1286	-1149	-1134	-1288	-1356	-1656	-1852	-1650	-1473
90	-1404	-1350	-1129	-987	-351	198	969	1941	2312	1849
100	1313	773	19	-232	-529	-872	-1073	-1128	-359	-274
110	505	863	1514	1732	1310	861	429	103	-164	-374
120	-538	-720	-515	-126	326	752	952	1004	1021	772
130	632	462	134	-266	-627	-842	-914	-832	-651	-373
140	-118	-6	233	635	1005	1289	921	284	-28	-84
150	156	331	277	49	-99	36	1122	2320	2616	2521
160	1946	1196	585	370	293	78	39	-220	-514	-651
170	-636	-334	-82	37	-25	-378	-689	-1374	-1773	-1917
180	-1629	-1144	-802	-577	-488	-461	-228	-218	122	432
190	751	1050	1141	778	491	216	-488	-791	-895	-1032
200	-1170	-1312	-1456	-1252	-593	657	1346	1664	1559	1254
210	1014	666	364	-111	-480	-683	-723	-446	-109	88
220	245	336	423	484	549	595	660	719	679	565
230	496	497	444	282	-109	-490	-606	-580	-312	74
240	321	479	605	701	752	592	347	-8	-534	-837
250	-1142	-1153	-629	-21	358	622	734	816	913	1029
260	920	427	-94	-333	-529	-450	-271	-156	-121	-65
270	-94	-145	-324	-400	-627	-881	-852	-572	-290	42
280	283	282	355	494	648	670	671	719	858	916
290	849	646	735	531	-15	-453	-800	-1027	-1110	-987
300	-748	-349	27	430	781	1142	1190	1234	1316	1389
310	1348	1277	962	668	494	416	305	241	-7	-298
320	-432	-443	-337	-251	-21	176	334	439	231	-95
330	-316	-468	-667	-775	-767	-770	-769	-773	-727	-691
340	-510	-77	332	643	684	568	573	608	673	674
350	570	500	488	639	902	1059	1262	1170	911	519
360	-153	-252	-393	-516	-681	-970	-1123	-1141	-983	-648
370	-539	-250	212	607	726	1337	1601	1730	1683	1388
380	1094	931	871	833	611	317	164	-963	-1284	-1737
390	-1962	-1947	-1526	-1048	-628	-370	-99	114	403	482
400	215	77	-85	-316	-570	-877	-795	-739	-608	-416
410	-316	-258	-257	-359	-572	-786	-1173	-1455	-1641	-1786
420	-1702	-1590	-1450	-1261	-1103	-895	-604	-374	-113	36
430	67	119	95	34	-151	-375	-593	-845	-1018	-851
440	-375	-67	392	1070	1529	1682	1703	1686	1836	2184
450	2557	3337	3937	4236	4422	4372	4093	3720	3126	2090
460	855	-67	-717	-1357	-1727	-2187	-2447	-2533	-2682	-2691
470	-2659	-2480	-1979	-1187	-438	229	668	1005	1047	891
480	651	334	266	134	71	-246	-834	-2023	-2398	-2385
490	-1910	-1494	-1108	-835	-704	-635	-439	-303	-325	-480
500	-539	-553	-475	-452	-277	-122	132	321	461	557
510	606	660	703	717	677	566	425	387	291	112
520	15	50	67	149	209	130	29	-114	-348	-1134
530	-2611	-3426	-3522	-3096	-2417	-1241	185	1265	2517	3502
540	3569	3160	2451	1167	-538	-1828	-2542	-2906	-2739	-2144
550	-1359	-513	338	639	646	697	842	1104	1262	1746
560	1956	1914	1462	1192	530	31	-156	-138	100	685

Station = ICH (Niphon-Gousei-Gomu)
Component = U-D

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
570	2290	3708	4688	5207	4971	4265	3339	2363	1166	301
580	-664	-1176	-1426	-1385	-1119	-885	-742	-534	-603	-808
590	-1002	-1213	-1251	-1147	-870	-448	-203	51	430	787
600	936	981	844	519	429	95	-486	-944	-1214	-868
610	-657	-433	-110	-29	-148	-313	-425	-455	-293	-115
620	-39	144	351	539	1019	1481	1636	1536	1283	1111
630	1004	958	836	708	521	164	-33	-357	-590	-713
640	-765	-556	90	538	785	653	81	-380	-1388	-2836
650	-3124	-2911	-2252	-1457	-854	-571	-408	-365	-454	-460
660	-420	-234	-172	8	47	-90	-256	-516	-942	-1005
670	-984	-727	-694	-236	1411	2764	3673	3955	3994	3876
680	3315	2817	2336	891	-242	-591	-959	-1043	-772	-561
690	-337	-181	-130	-363	-488	-850	-1272	-1517	-1742	-1838
700	-1815	-1562	-893	-370	57	661	1174	1381	1410	1378
710	1190	615	87	-400	-1069	-1639	-1897	-1622	-1158	-674
720	-106	527	1093	1424	1596	1630	1525	1256	934	701
730	884	1164	1040	1350	1779	1507	1181	1053	861	373
740	-142	-787	-1639	-2271	-3231	-3710	-3734	-3237	-2280	-1320
750	-224	148	546	1042	1141	1140	816	542	474	519
760	1008	1703	2201	2757	2806	2753	2465	2049	1473	665
770	56	-758	-1673	-2086	-2888	-3116	-3215	-3242	-3105	-2594
780	-1890	-874	-107	328	713	856	864	862	860	867
790	937	993	1037	1075	1089	732	359	-58	-327	-561
800	-661	-546	-301	188	1114	1887	2312	2603	2719	2333
810	1604	896	84	-693	-1490	-2391	-2766	-2797	-2732	-2360
820	-1559	-819	-391	31	254	234	221	62	-212	-294
830	-478	-775	-819	-817	-856	-911	-905	-885	-844	-822
840	-752	-635	-597	-406	-264	-167	-160	-135	-91	-89
850	-200	-367	-338	-358	-455	-394	-212	-189	39	179
860	325	397	554	532	335	274	-1	-174	-220	-233
870	-162	-35	223	395	763	903	955	868	844	844
880	955	1145	1259	1482	1579	1588	1375	1272	925	102
890	-826	-1273	-1466	-1451	-1022	-169	560	1348	1898	1767
900	1638	1405	980	602	309	58	-4	-144	-585	-1056
910	-1139	-1983	-2973	-3148	-3236	-3171	-2890	-2360	-1529	-770
920	-386	-6	419	536	464	304	115	-28	-78	-82
930	9	282	425	637	1274	1897	2397	2770	2699	2517
940	2198	1753	1528	1018	263	-317	-909	-1814	-2747	-3159
950	-3389	-3359	-2949	-2090	-1485	-747	-663	-438	-225	-317
960	-397	-675	-1193	-1533	-1893	-2022	-2032	-1953	-1564	-724
970	-74	466	1005	1836	2455	2478	2351	1862	1269	987
980	804	758	760	826	896	925	862	834	858	1019
990	1333	1768	2184	2519	2635	2516	2266	1851	1319	730
1000	261	-94	-454	-1459	-2370	-2580	-2689	-2774	-2784	-2766
1010	-2500	-2070	-1650	-1212	-770	-300	272	788	1066	1190
1020	1145	1062	1028	1013	1003	1017	1094	1172	1211	1112
1030	895	548	180	35	-265	-402	-322	-83	169	484
1040	622	585	308	-20	-514	-1083	-1759	-2142	-2246	-2177
1050	-1776	-1271	-905	-899	-367	238	459	478	400	234
1060	160	188	418	744	1025	1301	1253	881	382	-116
1070	-538	-917	-1216	-1520	-1645	-1636	-1505	-1223	-911	-500
1080	-41	469	781	1064	1180	1325	1358	1228	997	504
1090	-109	-395	-417	-555	-869	-1066	-1159	-1254	-1316	-1386
1100	-1519	-1629	-1717	-1785	-1700	-1377	-1133	-915	-561	-67
1110	711	1213	1573	1855	1856	1768	1578	1385	1211	1061
1120	977	891	795	896	997	1015	986	893	815	697
1130	658	550	430	301	276	89	65	39	-5	-102
1140	-325	-609	-777	-967	-1103	-1140	-866	-827	-808	-900
1150	-935	-957	-983	-992	-903	-768	-497	-308	-152	-128
1160	-211	-300	-450	-584	-608	-616	-352	-300	-85	86
1170	230	410	453	390	376	394	435	479	540	579

Station = ICH (Niphon-Gousei-Gomu) PAGE : 3
Component = U-D

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1180	619	652	648	544	426	91	-193	-375	-592	-722
1190	-748	-616	-396	-244	-80	102	135	57	-84	-231
1200	-282	-295	-279	-216	-4	192	246	362	365	235
1210	-197	-607	-716	-1067	-1339	-1449	-1455	-1462	-1257	-527
1220	192	713	1403	1732	1844	1545	559	-369	-840	-1339
1230	-1660	-1833	-1839	-1742	-1088	-255	351	1294	1484	1760
1240	1872	1812	1372	989	509	-59	-492	-704	-741	-711
1250	-701	-611	-460	-329	-176	-69	141	276	349	505
1260	558	499	233	-65	-277	-847	-1038	-1263	-1347	-1256
1270	-1123	-879	-411	-284	192	645	759	695	494	294
1280	133	75	212	415	761	1207	1706	1891	1882	1747
1290	1517	1062	324	-231	-525	-744	-955	-1087	-1060	-1100
1300	-1198	-1293	-1409	-1524	-1578	-1590	-1563	-1422	-1229	-1051
1310	-842	-749	-677	-653	-761	-778	-784	-810	-777	-614
1320	-487	-185	41	300	370	372	356	402	542	624
1330	842	1076	1377	1606	1915	2166	2279	2347	2278	1812
1340	1332	776	324	-219	-422	-536	-713	-756	-722	-681
1350	-672	-832	-885	-876	-964	-1167	-1237	-1264	-1228	-1081
1360	-977	-704	-408	-145	-13	218	446	554	613	635
1370	630	632	638	639	656	668	665	691	721	747
1380	783	809	822	833	807	752	668	551	489	327
1390	150	93	-64	-215	-288	-381	-453	-472	-503	-534
1400	-500	-423	-406	-393	-372	-320	-186	16	296	631
1410	768	602	309	34	-320	-909	-1134	-1400	-1582	-1774
1420	-1764	-1656	-1427	-1269	-613	485	1048	1418	1449	1458
1430	1438	1256	1308	1110	1035	463	646	229	-166	-312
1440	-461	-480	-421	-194	50	97	196	314	555	1087
1450	1354	1475	1467	1398	1321	1048	916	621	393	342
1460	111	-100	-405	-633	-928	-1193	-1328	-1522	-1751	-1923
1470	-2028	-2106	-1845	-1610	-1311	-926	-533	-243	-79	66
1480	125	148	169	76	-30	-77	-105	-80	-46	-39
1490	166	292	289	625	878	1073	1175	1258	1144	893
1500	783	466	331	129	-61	-143	-78	-34	-11	56
1510	78	113	135	83	-23	-151	-248	-284	-336	-321
1520	-102	-26	10	63	172	255	255	-151	-445	-527
1530	-701	-829	-954	-1124	-1352	-1561	-1562	-1541	-1323	-1267
1540	-902	-641	-344	123	363	550	754	858	913	1007
1550	1000	942	817	806	620	550	453	347	127	-73
1560	-168	-240	-299	-326	-295	-39	202	422	1026	1558
1570	1766	1837	1832	1693	1500	1394	1239	1110	1074	898
1580	712	501	285	90	-230	-522	-791	-958	-1020	-1050
1590	-1076	-1093	-1094	-1091	-1089	-1081	-1071	-1050	-1022	-994
1600	-898	-782	-741	-647	-452	-378	-351	-252	-93	74
1610	187	406	525	622	638	646	656	644	567	377
1620	234	104	-31	-51	-49	13	71	140	304	347
1630	407	436	425	254	-15	-189	-516	-719	-1030	-1066
1640	-1100	-1107	-1048	-906	-666	-622	-412	-279	-165	-24
1650	165	336	518	703	1012	1153	1307	1439	1498	1538
1660	1602	1628	1564	1443	1338	1139	943	819	427	202
1670	135	-127	-253	-256	-274	-273	-259	-244	-241	-216
1680	-187	-183	-196	-223	-246	-259	-266	-294	-357	-423
1690	-482	-576	-663	-753	-799	-812	-808	-754	-461	-58
1700	154	407	489	420	309	121	30	-28	-84	-52
1710	67	165	341	364	408	431	475	467	369	219
1720	114	-54	-331	-360	-383	-442	-784	-922	-1153	-1164
1730	-1179	-1236	-1259	-1152	-1008	-857	-526	-411	-322	-301
1740	-385	-437	-545	-571	-564	-464	-395	-336	-216	-65
1750	88	140	252	335	341	371	544	660	826	988
1760	1049	1120	1164	1054	909	748	613	545	413	247
1770	165	152	154	160	171	183	234	331	415	422
1780	357	312	269	213	105	-2	0	-27	-55	-43

Station = ICH (Niphon-Gousei-Gomu) PAGE : 4
Component = U-D

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1790	-7	27	31	-21	-9	-21	-50	-71	-157	-255
1800	-319	-360	-397	-412	-405	-278	-172	-66	86	174
1810	260	220	34	-210	-276	-435	-636	-767	-807	-942
1820	-1154	-1163	-1155	-909	-828	-766	-608	-403	-387	-295
1830	-79	146	245	297	468	512	562	601	633	765
1840	856	970	1066	1099	1110	1113	1106	1061	1018	943
1850	911	851	719	682	625	441	365	350	41	-365
1860	-624	-946	-1216	-1359	-1439	-1598	-1719	-1722	-1800	-1873
1870	-1770	-1586	-1434	-1291	-1214	-1201	-1175	-1174	-1184	-1174
1880	-1176	-1163	-1107	-1033	-897	-645	-422	-207	-202	-165
1890	-100	-99	-20	164	255	420	737	844	923	955
1900	986	1043	1080	1100	1102	1106	1118	1050	1015	972
1910	913	855	824	798	696	699	575	547	504	435
1920	386	324	274	279	137	-80	-264	-395	-512	-675
1930	-784	-797	-778	-653	-527	-354	-218	-112	-65	-151
1940	-283	-348	-375	-401	-428	-453	-474	-488	-475	-404
1950	-311	-270	-243	-230	-223	-200	-158	-77	34	135
1960	201	344	511	580	592	580	491	297	152	131
1970	-17	-250	-266	-292	-294	-269	-189	-80	-11	145
1980	390	472	608	711	744	756	770	695	486	381
1990	345	105	-11	-118	-192	-286	-409	-436	-419	-373
2000	-318	-265	-256	-242	-239	-211	-182	-151	-124	-39
2010	12	39	136	170	342	451	547	467	368	329
2020	215	82	-95	-277	-383	-504	-699	-839	-885	-869
2030	-832	-763	-738	-851	-887	-890	-887	-860	-795	-731
2040	-714	-570	-432	-320	-262	-170	-29	56	65	98
2050	182	217	221	243	328	396	396	395	457	567
2060	622	667	713	668	570	510	397	250	208	195
2070	180	149	112	98	101	69	18	1	-131	-314
2080	-400	-447	-532	-529	-516	-425	-267	-158	-106	60
2090	127	375	377	470	540	627	654	694	677	680
2100	668	707	773	814	879	879	944	1012	1054	1054
2110	1054	1002	804	729	566	540	367	242	5	-220
2120	-288	-288	-317	-402	-481	-565	-667	-726	-772	-787
2130	-763	-729	-687	-658	-622	-576	-533	-504	-494	-528
2140	-572	-607	-608	-559	-518	-486	-455	-398	-293	-196
2150	-104	-7	61	71	43	22	11	-6	-27	-28
2160	-33	18	161	257	389	641	809	1023	1270	1334
2170	1346	1265	1082	931	611	198	-209	-354	-489	-526
2180	-554	-554	-520	-416	-345	-271	-194	-132	-64	-60
2190	-20	14	19	22	22	22	21	20	16	14
2200	-53	-116	-207	-340	-373	-405	-471	-505	-511	-520
2210	-459	-394	-274	-256	-152	-86	7	41	79	83
2220	13	-10	-72	-132	-209	-320	-371	-420	-478	-520
2230	-558	-583	-592	-593	-572	-551	-516	-459	-428	-407
2240	-359	-307	-251	-200	-159	-93	-38	4	89	181
2250	249	333	393	410	492	609	665	690	716	746
2260	766	745	682	606	502	405	240	91	19	-33
2270	-52	-63	-74	-81	-95	-134	-159	-196	-253	-313
2280	-351	-418	-475	-523	-514	-452	-426	-393	-382	-412
2290	-444	-476	-498	-524	-587	-631	-655	-657	-608	-499
2300	-435	-378	-267	-149	-46	-41	81	99	138	178
2310	188	181	131	35	-45	-74	-83	-49	52	124
2320	125	118	117	116	121	125	210	277	300	485
2330	633	741	812	832	843	742	623	551	532	496
2340	386	291	268	279	302	70	-204	-363	-631	-740
2350	-866	-1076	-1173	-1221	-1258	-1314	-1337	-1347	-1345	-1148
2360	-727	-598	-606	-423	-218	-15	152	201	245	252
2370	234	244	257	251	249	275	317	308	322	414
2380	473	566	656	707	718	652	629	637	631	636
2390	600	521	522	524	476	464	424	342	94	59

Station = ICH (Niphon-Gousei-Gomu) PAGE : 5
Component = U-D

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2400	-234	-475	-660	-807	-953	-1027	-1037	-1031	-777	-742
2410	-705	-585	-521	-450	-381	-307	-233	-213	-142	-118
2420	-116	-77	-37	17	137	238	382	412	437	562
2430	693	824	898	911	926	937	933	906	844	766
2440	746	784	815	835	799	691	584	508	478	491
2450	434	317	254	212	158	33	-43	-176	-316	-441
2460	-577	-724	-804	-908	-980	-1111	-1202	-1248	-1254	-1246
2470	-1224	-1086	-902	-841	-704	-690	-661	-530	-411	-378
2480	-289	-135	-58	84	124	126	183	198	194	186
2490	131	67	2	-48	-49	-57	-60	-11	62	149
2500	264	469	660	989	1139	1243	1290	1318	1291	1105
2510	945	853	680	523	231	144	84	-10	-131	-261
2520	-363	-466	-500	-530	-627	-691	-756	-815	-831	-781
2530	-745	-717	-636	-562	-523	-515	-478	-327	-209	-96
2540	156	319	408	513	534	575	630	665	685	710
2550	808	885	896	945	1031	1034	1014	913	822	783
2560	599	507	468	170	-143	-355	-339	-401	-621	-693
2570	-744	-793	-760	-662	-675	-669	-666	-659	-610	-576
2580	-502	-454	-453	-385	-301	-281	-260	-253	-247	-235
2590	-202	-231	-233	-234	-282	-298	-296	-278	-256	-222
2600	-219	-268	-268	-218	-208	-197	-81	23	63	108
2610	264	424	555	540	562	611	653	696	713	765
2620	837	864	869	843	820	806	781	767	767	762
2630	752	694	632	630	634	561	434	382	335	184
2640	-34	-258	-456	-625	-726	-949	-1161	-1278	-1369	-1487
2650	-1598	-1667	-1670	-1665	-1667	-1666	-1676	-1684	-1616	-1463
2660	-1283	-1264	-949	-711	-516	-336	-31	97	97	242
2670	417	637	693	721	753	731	622	558	434	426
2680	380	281	189	116	72	43	40	143	201	210
2690	206	158	29	16	-34	-93	-153	-284	-352	-385
2700	-399	-363	-312	-292	-287	-277	-254	-197	-133	-96
2710	-60	-20	28	65	96	97	74	73	137	212
2720	242	241	215	173	143	125	117	112	102	72
2730	6	-67	-120	-193	-301	-401	-503	-576	-585	-577
2740	-487	-330	-263	-235	-204	-124	-66	22	74	100
2750	79	80	106	117	161	198	220	229	233	190
2760	189	175	178	160	63	51	11	-34	-103	-190
2770	-248	-263	-264	-264	-251	-287	-327	-346	-380	-378
2780	-372	-361	-356	-383	-417	-432	-434	-435	-434	-433
2790	-438	-431	-388	-348	-286	-237	-185	-104	-43	-13
2800	15	59	117	141	173	224	251	253	245	211
2810	194	195	195	195	197	191	165	135	99	78
2820	62	23	-24	-90	-157	-227	-280	-312	-356	-381
2830	-417	-457	-486	-504	-513	-516	-517	-517	-508	-492
2840	-490	-464	-427	-418	-405	-336	-228	-204	-160	-132
2850	-96	-65	-55	-53	-55	-65	-96	-99	-101	-104
2860	-105	-109	-109	-108	-104	-95	-74	-41	-25	16
2870	68	186	301	345	431	490	535	720	763	783
2880	843	901	963	981	974	883	698	659	536	512
2890	431	404	320	280	194	128	87	44	-71	-107
2900	-189	-294	-400	-435	-430	-427	-465	-512	-534	-558
2910	-584	-608	-629	-647	-637	-728	-844	-865	-874	-873
2920	-871	-888	-914	-935	-903	-825	-777	-766	-753	-696
2930	-628	-579	-538	-511	-501	-479	-467	-474	-487	-488
2940	-477	-433	-360	-308	-287	-219	-142	-121	-116	-123
2950	-160	-178	-237	-268	-290	-323	-372	-380	-377	-345
2960	-268	-163	-69	-48	54	233	287	480	545	634
2970	645	632	559	535	536	528	495	442	446	355
2980	274	217	174	122	78	48	-5	-53	-68	-85
2990	-93	-91	-70	-32	-1	34	60	70	78	80
3000	79	80	80	81	64	39	21	13	12	8

Station = ICH (Niphon-Gousei-Gomu) PAGE : 6
Component = U-D

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3010	-5	-29	-58	-73	-92	-107	-109	-131	-159	-173
3020	-178	-178	-176	-172	-165	-157	-151	-145	-119	-74
3030	-41	-11	39	155	192	237	326	337	374	401
3040	430	425	361	337	270	171	148	110	30	-52
3050	-128	-187	-233	-241	-191	-138	-98	-45	-12	-20
3060	-102	-156	-151	-196	-196	-198	-222	-286	-316	-334
3070	-359	-373	-377	-378	-377	-376	-375	-373	-372	-382
3080	-445	-487	-495	-505	-523	-535	-523	-459	-419	-375
3090	-348	-298	-239	-211	-198	-187	-183	-169	-134	-99
3100	-85	-78	-6	45	46	61	84	95	99	108
3110	111	107	102	102	103	106	102	94	94	84
3120	66	63	57	48	47	44	36	33	37	39
3130	30	21	-1	-28	-62	-76	-100	-109	-134	-154
3140	-179	-194	-192	-178	-158	-128	-109	-91	-63	-59
3150	-38	-1	31	42	61	62	61	64	67	67
3160	67	65	65	67	69	75	75	65	61	41
3170	6	-28	-42	-47	-42	-39	-39	-36	-7	23
3180	54	71	92	116	138	165	199	210	208	250
3190	293	279	250	207	155	130	122	118	120	111
3200	99	102	95	61	26	-10	-43	-63	-62	-95
3210	-161	-184	-193	-173	-123	-68	-13	36	85	132
3220	182	199	215	217	205	160	94	82	77	71
3230	48	21	12	16	15	2	-29	-90	-109	-112
3240	-109	-95	-67	-28	-2	19	36	38	32	10
3250	-30	-50	-56	-57	-56	-37	-12	6	10	-12
3260	-42	-69	-99	-116	-148	-166	-191	-218	-244	-244
3270	-241	-223	-184	-125	-75	-45	-10	26	59	90
3280	123	156	190	217	235	243	239	224	191	165
3290	123	64	16	-8	-13	-26	-44	-71	-90	-91
3300	-93	-93	-95	-71	-45	-25	15	40	62	74
3310	85	93	94	79	41	23	23	21	8	-19
3320	-41	-52	-67	-76	-77	-78	-77	-73	-71	-66
3330	-65	-61	-66	-87	-117	-173	-249	-281	-366	-432
3340	-495	-534	-573	-619	-652	-653	-623	-597	-526	-417
3350	-388	-388	-405	-401	-373	-330	-283	-223	-211	-211
3360	-149	-43	-22	33	103	139	207	242	249	329
3370	349	368	390	396	411	461	515	574	638	689
3380	718	747	758	763	730	704	651	602	588	572
3390	532	473	369	273	233	235	169	65	-24	-81
3400	-64	-80	-172	-294	-347	-343	-338	-323	-304	-290
3410	-271	-243	-211	-195	-219	-274	-315	-368	-417	-447
3420	-451	-447	-426	-393	-370	-361	-363	-366	-365	-362
3430	-340	-301	-237	-172	-135	-16	-37	-38	82	142
3440	174	202	201	212	260	300	329	342	379	399
3450	416	425	431	426	427	392	373	370	319	253
3460	211	130	90	19	-50	-97	-138	-180	-191	-240
3470	-277	-304	-308	-305	-307	-343	-384	-414	-445	-465
3480	-480	-501	-519	-535	-543	-542	-546	-515	-476	-432
3490	-359	-273	-219	-211	-164	-67	10	40	77	141
3500	183	195	206	224	243	276	283	299	301	297
3510	295	283	268	260	252	228	216	214	213	216
3520	199	125	37	-15	-68	-175	-226	-274	-369	-419
3530	-440	-476	-505	-513	-538	-539	-536	-534	-521	-501
3540	-471	-470	-459	-453	-421	-411	-411	-412	-412	-408
3550	-419	-429	-430	-399	-342	-308	-304	-287	-261	-248
3560	-226	-204	-181	-135	-78	-43	-36	-22	-15	4
3570	32	64	99	166	222	232	270	314	339	357
3580	342	313	292	264	223	201	208	176	123	69
3590	-4	-94	-156	-167	-224	-277	-311	-375	-445	-483
3600	-507	-537	-534	-507	-475	-452	-392	-347	-354	-346
3610	-312	-298	-286	-249	-176	-127	-68	-35	-12	-17

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Component = U-D

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
3620	-18	-21	-22	-22	-22	-21	-13	10	9	8
3630	8	11	20	28	42	77	88	94	108	119
3640	139	154	168	175	187	198	193	180	177	168
3650	171	165	159	150	117	90	42	-13	-51	-89
3660	-102	-120	-141	-138	-177	-209	-227	-260	-308	-330
3670	-332	-332	-309	-275	-265	-266	-259	-252	-239	-224
3680	-218	-214	-204	-193	-189	-190	-191	-190	-189	-188
3690	-186	-184	-181	-164	-116	-70	-58	-55	-52	-24
3700	13	42	108	107	124	243	396	433	526	538
3710	556	579	591	592	593	596	597	600	598	599
3720	605	609	589	521	452	358	349	248	172	131
3730	62	27	-58	-144	-221	-271	-286	-387	-426	-465
3740	-490	-493	-542	-576	-667	-705	-726	-749	-767	-773
3750	-773	-756	-685	-645	-598	-584	-577	-509	-459	-440
3760	-416	-379	-370	-310	-264	-187	-141	-134	-84	73
3770	145	201	228	204	233	281	307	327	349	374
3780	388	387	390	399	415	424	422	422	427	443
3790	460	448	415	396	348	295	257	238	168	94
3800	22	-56	-139	-185	-221	-223	-200	-177	-166	-146
3810	-128	-124	-118	-110	-120	-178	-211	-273	-332	-347
3820	-344	-360	-376	-427	-455	-486	-510	-508	-456	-387
3830	-385	-386	-380	-369	-361	-353	-337	-296	-221	-164
3840	-162	-93	-39	3	102	190	225	283	344	376
3850	385	391	409	415	412	420	441	452	462	475
3860	480	482	466	432	419	421	415	409	409	409
3870	408	408	407	407	400	392	392	392	390	377
3880	363	352	337	333	325	287	246	228	213	178
3890	114	76	52	47	51	52	47	34	-15	-86
3900	-133	-166	-183	-179	-178	-177	-178	-177	-177	-180
3910	-196	-203	-213	-227	-240	-258	-265	-264	-298	-328
3920	-350	-370	-378	-386	-386	-388	-389	-388	-386	-386
3930	-385	-368	-337	-293	-269	-248	-228	-219	-221	-227
3940	-228	-227	-216	-214	-189	-169	-148	-124	-94	-57
3950	-29	44	113	135	161	187	216	246	264	286
3960	295	284	245	205	196	200	200	207	219	239
3970	264	277	284	287	284	282	271	231	169	118
3980	81	55	55	53	52	44	26	5	-21	-69
3990	-84	-71	-54	-55	-56	-55	-61	-74	-85	-99
4000	-115	-133	-161	-233	-262	-297	-304	-305	-298	-260
4010	-270	-307	-287	-228	-180	-183	-156	-156	-116	-81
4020	-68	-53	10	68	116	130	181	187	200	207
4030	225	238	258	287	306	318	319	318	319	326
4040	299	278	272	260	249	222	207	202	199	206
4050	218	219	221	237	245	247	249	250	252	252
4060	252	252	243	226	196	172	165	161	161	163
4070	149	125	108	83	56	38	36	16	-8	-7
4080	-6	-6	-5	-4	-4	-4	-5	-4	4	27
4090	56	95	106	110	120	122	106	66	39	3
4100	-17	-25	-78	-113	-145	-183	-210	-214	-216	-243
4110	-242	-241	-254	-281	-290	-290	-289	-289	-288	-256
4120	-212	-174	-135	-91	-87	-87	-62	-51	-47	-59
4130	-88	-100	-120	-129	-141	-154	-157	-154	-150	-148
4140	-141	-138	-121	-92	-83	-80	-75	-76	-75	-74
4150	-76	-77	-77	-86	-93	-92	-92	-94	-93	-93
4160	-99	-108	-117	-128	-139	-150	-161	-173	-181	-183
4170	-183	-182	-181	-179	-174	-158	-134	-110	-94	-85
4180	-87	-82	-69	-63	-58	-58	-62	-72	-79	-76
4190	-82	-101	-110	-120	-131	-134	-137	-141	-142	-146
4200	-152	-154	-155	-155	-154	-151	-147	-145	-142	-137
4210	-130	-129	-129	-130	-129	-128	-128	-127	-126	-125
4220	-110	-56	-6	55	115	155	198	202	200	229

Station = ICH (Niphon-Gousei-Gomu) PAGE : 8
Component = U-D

NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4230	274	340	374	386	399	412	418	420	426	431
4240	441	448	451	455	458	460	461	466	472	480
4250	488	492	494	491	471	447	433	431	430	420
4260	409	402	392	371	351	335	319	267	198	193
4270	170	141	113	93	72	34	-8	-25	-46	-62
4280	-73	-87	-97	-119	-168	-181	-186	-195	-198	-200
4290	-202	-202	-202	-200	-198	-193	-173	-164	-164	-155
4300	-143	-137	-120	-112	-79	-65	-38	-24	-20	-10
4310	-13	-32	-32	-28	-25	-25	-25	6	48	57
4320	73	76	77	71	50	43	62	81	93	94
4330	95	84	73	38	11	-12	-13	-28	-64	-90
4340	-106	-115	-121	-125	-128	-134	-140	-140	-127	-107
4350	-98	-98	-91	-79	-70	-62	-55	-51	-46	-38
4360	-33	-37	-44	-54	-73	-91	-112	-131	-156	-174
4370	-186	-187	-189	-198	-190	-142	-108	-79	-49	-19
4380	22	49	58	87	143	181	222	253	261	262
4390	278	319	332	325	270	238	213	183	150	143
4400	126	121	120	123	165	188	201	218	230	237
4410	246	243	227	214	191	160	146	127	105	96
4420	83	77	75	74	78	96	115	143	171	187
4430	189	190	198	200	202	204	217	224	227	231
4440	204	177	154	129	113	100	86	67	35	9
4450	-27	-64	-80	-95	-102	-110	-120	-129	-128	-124
4460	-123	-125	-126	-133	-141	-143	-142	-146	-175	-209
4470	-210	-235	-257	-264	-275	-275	-273	-253	-213	-191
4480	-133	-79	-17	33	80	116	165	160	166	211
4490	257	282	333	367	382	383	413	419	419	419
4500	410	400	383	377	364	356	339	324	307	296
4510	293	294	301	329	362	390	401	400	387	347
4520	307	265	253	255	240	224	206	196	200	202
4530	201	210	216	219	218	200	179	169	166	149
4540	114	90	76	70	63	53	47	32	16	-10
4550	-36	-42	-64	-95	-97	-88	-71	-105	-187	-235
4560	-227	-211	-194	-178	-179	-181	-193	-211	-225	-227
4570	-226	-247	-295	-292	-292	-283	-267	-233	-180	-158
4580	-154	-124	-75	-47	-45	-64	-59	-53	4	35
4590	89	117	112	112	110	76	71	72	73	72
4600	68	67	81	100	124	140	167	192	208	216
4610	230	232	233	192	147	110	93	79	62	51
4620	47	38	28	11	-3	-17	-22	-17	1	19
4630	25	29	34	46	73	98	113	126	133	134
4640	135	113	80	62	47	41	42	42	44	45
4650	45	45	47	50	45	36	33	24	11	0
4660	-14	-27	-36	-46	-67	-86	-98	-113	-136	-162
4670	-175	-188	-192	-193	-189	-174	-150	-128	-78	-33
4680	-8	-7	12	32	74	120	164	217	244	273
4690	315	368	386	403	412	412	405	397	394	393
4700	393	392	379	368	352	342	338	338	333	318
4710	307	281	274	277	275	253	229	186	165	111
4720	67	49	35	26	25	27	29	24	5	-17
4730	-25	-31	-38	-37	-47	-61	-70	-92	-118	-142
4740	-167	-192	-229	-264	-274	-279	-268	-236	-208	-189
4750	-167	-157	-148	-144	-140	-122	-102	-97	-76	-68
4760	-34	-13	-14	-16	-19	-24	-33	-49	-59	-64
4770	-72	-86	-93	-95	-94	-87	-79	-78	-68	-57
4780	-46	-23	-9	17	20	25	37	45	73	84
4790	95	96	96	120	140	132	132	167	197	230
4800	254	290	346	361	360	360	361	361	363	380
4810	406	415	394	363	313	275	257	213	179	139
4820	104	82	54	23	-12	-50	-72	-75	-74	-74
4830	-69	-66	-61	-36	-13	-8	-6	-8	-10	-16

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NO.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4840	-23	-22	-30	-52	-66	-75	-89	-100	-104	-124
4850	-154	-188	-212	-233	-235	-232	-217	-188	-168	-158
4860	-151	-142	-137	-134	-125	-97	-80	-49	-25	-22
4870	-19	0	22	40	76	90	103	118	120	120
4880	120	120	120	121	131	129	132	136	157	154
4890	160	175	189	191	176	158	135	115	91	68
4900	47	29	21	19	19	20	21	24	34	37
4910	37	39	57	82	106	158	207	235	260	276
4920	317	376	425	454	454	437	423	421	427	424
4930	386	352	324	274	235	204	170	155	143	115
4940	86	61	45	27	-2	-25	-43	-67	-79	-78
4950	-69	-61	-56	-50	-50	-50	-50	-49	-50	-62
4960	-87	-107	-127	-146	-153	-181	-183	-182	-182	-178
4970	-168	-148	-147	-142	-142	-120	-123	-123	-116	-99
4980	-97	-87	-67	-52	-50	-49	-49	-48	-47	-45
4990	-45	-45	-47	-54	-62	-83	-88	-83	-75	-56
5000	-37	-27	-19	-15	-7	13	41	60	78	143
5010	190	202	206	207	209	216	224	234	246	253
5020	256	261	269	294	325	336	339	354	366	365
5030	365	365	363	361	347	327	318	293	245	194
5040	147	124	113	89	27	-32	-83	-143	-147	-168
5050	-195	-223	-231	-227	-230	-219	-199	-183	-176	-175
5060	-174	-174	-175	-175	-175	-175	-175	-175	-175	-175
5070	-173	-172	-167	-167	-165	-165	-163	-162	-159	-154
5080	-151	-144	-136	-131	-125	-109	-105	-92	-87	-68
5090	-30	0	21	41	75	105	121	145	184	201
5100	227	280	308	336	348	355	360	383	438	484
5110	512	533	555	587	603	611	626	634	638	626
5120	594	562	547	551	528	472	415	376	362	366
5130	363	331	272	236	177	109	81	40	-40	-109
5140	-164	-216	-228	-234	-229	-232	-256	-264	-267	-269
5150	-269	-269	-264	-243	-224	-198	-189	-198	-200	-194
5160	-191	-192	-187	-187	-180	-167	-176	-181	-172	-140
5170	-120	-91	-81	-84	-93	-90	-89	-100	-121	-124
5180	-123	-123	-126	-127	-119	-119	-123	-124	-123	-120
5190	-100	-81	-76	-58	-27	-1	21	51	63	72
5200	89	97	104	110	122	148	182	204	212	259
5210	318	352	364	321	277	257	225	213	216	217
5220	228	218	184	160	139	139	142	142	128	92
5230	54	25	17	10	1	-8	-13	-25	-40	-56
5240	-74	-89	-97	-106	-113	-121	-121	-125	-148	-160
5250	-168	-170	-165	-164	-164	-164	-159	-159	-151	-111
5260	-76	-45	-3	-3	-4	-3	-3	-3	-6	-3
5270	18	25	23	23	27	29	29	27	27	26
5280	20	16	9	6	-4	-7	-12	-15	-13	-14
5290	-15	-15	-16	-16	-10	-2	7	12	13	13
5300	16	35	58	73	86	102	107	107	117	131
5310	152	184	233	291	330	353	377	406	422	420
5320	427	445	459	474	487	496	500	499	499	499
5330	500	504	511	511	491	455	423	376	343	308
5340	292	268	242	228	185	163	111	62	41	22
5350	6	-16	-23	-62	-111	-171	-170			

END

Table. 4

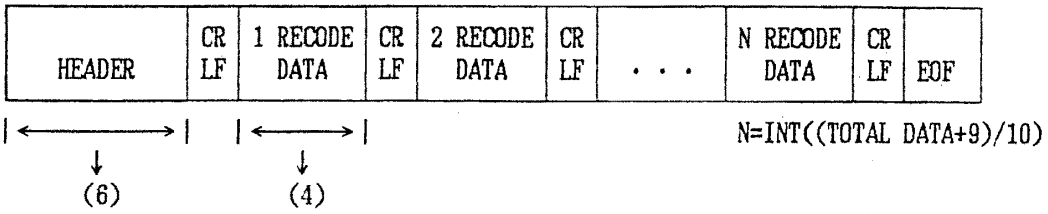
(1) FLOPPY DISK

DISK SIZE : 3.5INCH
FORMATED : MS-DOS
DENSITY : 2DD (9SECTOR/TRACK,720KB TYPE)
CHARACTER CODE : ASCII

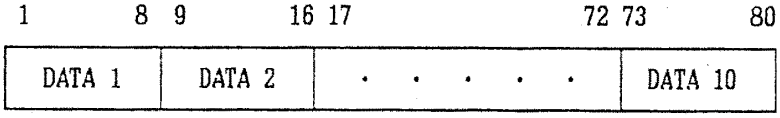
(2) FILE NAME

FILE NAME= 'AAABBBB.CC'
AAA : STATION CODE
BBBB : MONTH·DAY
CC : CHANNEL INDX

(3) FILE FORMAT



(4) RECODE FORMAT (80BYTES)



RECODE FORMAT=(10I8)
SCALE OF DATA=0.01(GAL)

(5) SAMPLE PROGRAM

SYSTEM : MS-DOS (Version 3.1)
PC9801 N-88(86) BASIC (Version 4.0)

```
 10 OPTION BASE 1
 20 DIM HEAD1$(200),HEAD2$(200)
 30 OPEN "ICH1217.01" FOR INPUT AS #1
 40 LINE INPUT #1,HEAD1$
 50 LINE INPUT #1,HEAD2$
 60 PRINT HEAD1$;HEAD2$
 70 N=VAL(MID$(HEAD1$,110,5))  ' NUMBER OF DATA
 80 BIT1=0.01  ' SCALE
 90 FOR K=1 TO N
100 INPUT #1,BUF
110 BUF=BUF*BIT1
120 PRINT "(";K;")";BUF;"gal"
130 NEXT K
140 CLOSE #1
150 END
```

(6) HEADER FORMAT (400BYTES)

```
1       10      20      30      40      50      60      70      80
□□□□□□,□□□□□,A1>>>>>>,Time=yyyy/mm/dd,hh:dd:ss.ss,A2>,Smp.=999Hz,A3>,9-9ch=A4>>,

81      90      100     110     120     130     140     150     160
□□□□□□□□□□□,□,Max.=999.999,N=99999,□□□□□,□□□,□□□□□□□,□□□□□□□,□□□□□□□□□□□,□□□□□□□,

161     170     180     190     200     210     220     230     240
A5>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>,A6>>>>>>>>>>>,A7>>>>>>>>>>,□□□□□□□□,□□□

241     250     260     270     280     290     300     310     320
O.T.=yyyy/mm/dd,hh:dd:ss.s,Mag.=9.9,Dep.=999Km,A8>>>>>>>>>,A9>>>>>>>>,□□□□□□□□□□

321     330     340     350     360     370     380     390     400
Loc.=AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA,□□□□□□□□□□□
```

概　要

本資料は国立防災科学技術センター・強震記録数値集の第4集であり，1987年千葉県東方沖地震における強震記録を扱っている。国立防災科学技術センターのディジタル型強震計による6地点の3成分が採録されている。本資料には，各記録の加速度波形，速度波形，変位波形及び各種応答スペクトルの一次処理に加えて，SMAC−B_2 記録の数値表を収めてある。なお，ディジタル強震計記録は，群列観測として利用しやすい様にフロッピー・ディスクに数値データをMS−DOS形式で書き込んであるが，読み取りに必要なBasicプログラムを本文中に付加することで利用の便宜をはかった。

Key Word : Strong-motion Earthquake Observation, Digitized Acceleration Records, Response Sepectra

キーワード : 強震観測，加速度数値化記録，応答スペクトル